

LEXIKON

DER

KOHLENSTOFF-VERBINDUNGEN

SUPPLEMENT III.



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DER

KOHLENSTOFF-VERBINDUNGEN

Von

M. M. RICHTER.

SUPPLEMENT III

UMFASSEND

DIE LITTERATURJAHRE 1903 UND 1904.

HAMBURG UND LEIPZIG
VERLAG VON LEOPOLD VOSS
1905



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Abkürzungen. — Abbreviations. — Abréviations. — Abbreviazioni.

Α. Liebig's Annalen der Chemie. A. ch. Annales de chimie et de physique. American chemical Journal. Am.Am. Soc. Journal of the American chemical Society. A. Pth. Archiv für experimentelle Pathologie und Pharmakologie. Archiv der Pharmacie. Ar. Berichte der Deutschen chemischen Gesellschaft. В. BI. Bulletin de la société chimique de Paris. Bulet. Buletinul societații de sciințe din Bucuresci. C. Chemisches Centralblatt. C. r.Comptes rendus de l'académie des sciences. Ch. J. Chemische Industrie. Ch. Z. Chemiker-Zeitung (Cöthen). Chem. N. Chemical News. DINGLER'S Polytechnisches Journal. Patentschrift des Deutschen Reiches. D.R.P.El. Ch. Z. Elektrochemische Zeitschrift. Fr. (Fresenius') Zeitschrift für analytische Chemie. Rrdl. FRIEDLÄNDER'S Fortschritte der Theerfarbenfabrication (Berlin, Springer). G. Gazzetta chimica italiana. Gm. L. GMELIN'S Handbuch der organischen Chemie. 4. Aufl. Band 1-4 (1848-1870) und Supplementband 1-2 (1867-1868). Grh. GERHARDT, Traité de chimie organique. 4 Bände. (1853-1856). Ħ. (Hoppe-Seyler's) Zeitschrift für physiologische Chemie. J. Jahresbericht der Chemie. J. pr. Journal für praktische Chemie. J. r.Journal der russischen physikalisch-chemischen Gesellschaft. J. Th. Jahresbericht der Thierchemie. L. V. St. Landwirthschaftliche Versuchsstationen. М. Monatshefte für Chemie. P. Poggendorff's Annalen der Physik und Chemie. P. C. H. Pharmaceutische Centralhalle. P. Ch. S. Proceedings of the Chemical Society. Ph. Ch.Zeitschrift für physikalische Chemie. Recueil des travaux chimiques des Pays-Bas. R. R. A. L. Atti della reale Accademia dei Lincei (Rendiconti) Soc. Journal of the chemical Society of London. W. Annalen der Physik (Wiedemann). Zeitschrift für Chemie. Z. a. Ch. Zeitschrift für anorganische Chemie. Z. Ang. Zeitschrift für angewandte Chemie. Z. B.Zeitschrift für Biologie.

Z. El. Ch. Zeitschrift für Elektrochemie.

Zeitschrift für Krystallographie.

Z. Kr.

Abkürzungen. — Abbreviations. — Abréviations. — Abbreviazioni.

Anm.	Anmerkung	note	annotation	avvertenza
cor.	corrigirt	corrected	corrigé	corretto
d-	rechtsdrehend	dextrorotatory	destrogyre	destrogiro
f.	fest	solid	solide	solido
Fl.	flüssig	liquid	liquide	liquido
fum.	fumaroïd	fumaroid	fumaroïde	fumaroide
h.	hochschmelzend	high melting	fond à haute tempéra-	che fonde alto
i-	inactiv	inactive	inactif [ture	inattivo
(i. D.)	im Dampf	in the vapour	dans la vapeur	nel vapore
isom.	isomer	isomeric	isomère	isomero
(i. V.)	im Vakuum	in a vacuum	dans le vide	nel vuoto
1-	linksdrehend	laevorotatory	lévogyre	levogiro
lab.	labil	unstable	instable	labile
m-	meta	meta	méta	meta
mal.	maleïnoïd	malenoid	malénoïde	maleinoide
norm.	normal	normal	normal	normal
0-	ortho	ortho	ortho	orto
p -	para	para	para	para
\mathbb{R} .	Ring (cyklo)	ring (cyclic)	noyau (cyclo)	anello (ciclo)
s.	symmetrisch	symmetrical	symétrique	simmetrico
Sd.	Siedepunkt	boiling point	point d'ébullition	punto di ebullizione
Sm.	Schmelzpunkt	melting point	point de fusion	punto di fusione
stab.	stabil	stable	stable	stabile
u.Zers.	unter Zersetzung	with decomposition	en se décomposant	con decomposizione
unc.	uncorrigirt	uncorrected	non corrigé	non corretto
uns.	unsymmetrisch	unsymmetrical	asymétrique	asimmetrico
Verb.	Verbindung	compound	combinaison	combinazione (com-
				[posto)

Frequently occurring German Expressions.	Mots allemands souvent employés.	Vocaboli tedeschi][:/] pui frequentemente usati.
base	base	base
hydrocarbon	hydrocarbure	idrocarburo
literature abundant	bibliographie consi- dérable	Letteratura ricca, copiosa
acid	acide	acido
most salts known	beaucoup de sels connus	i sali sono in gran parte noti
compound of	dérivré de	composto ottenuto da
$\overline{\text{from}}$	đe	da
at	à	a
\mathbf{or}	ou	o (oppure)
see also	à comparer	vedi anche
anhydrous	anhydre	anidro
	base hydrocarbon literature abundant acid most salts known compound of from at or see also	base base hydrocarbure hydrocarbure literature abundant bibliographic considérable acid acide most salts known beaucoup de sels connus compound of dérivré de from de at à or ou see also à comparer

1) Ein "Stern" vor der Ordnungsnummer bedeutet, dass die Verbindung sehon im Stammwerk unter der gleichen Nummer beschrieben ist.

2) Die mit einem "Stern" versehene "Beilstein-Notiz" bezieht sich auf die Ergänzungsbände,

C,-Gruppe.

*1) Kohlensäure (J. pr. [2] 67, 423 C. 1903 [1] 1387).
*1) Tetrachlormethan (G. 33 [1] 77 C. 1903 [1] 1109).
*1) Kohlenstoffmonosulfid (Soc. 81, 1538 C. 1903 [1] 7, 127; Z. α. Ch. 34, 187 C. 1903 [1] 808; B. 36, 4336 C. 1904 [1] 437).
1) Kohlenstoffmolybdän (B. 37, 3324 C. 1904 [2] 1022). CO, CCI4 CS CMo *1) Cyanwasserstoffsäure (C. 1903 | 1 | 494).

*1) Chloroform. Sm. — 63,2° (C. 1904 [1] 1195).

*1) Bromoform (C. 1904 [2] 301).

*1) Jodoform (C. 1903 | 1 | 918; 1904 | 1 | 995).

*1) Aldehyd d. Ameisensäure. — HBr. (C. 1903 [2] 709).

*1) Ameisensäure. NII, (M. 23, 1034 C. 1903 [1] 386; B. 36, 1783 C. 1903 | 2] 189; C. r. 136, 1465 C. 1903 | 2] 282; B. 36, 4351 C. 1904 [1] 356).

C 15,4 — H 2,6 — O 82,0 — M. G. 78.

1) Ueberkohlensäure. Na, + 1 ½ H₂O, K₂ (B. 32, 1544 C. 1903 [1] 494; D.R.P. 145746 C. 1903 [2] 1034).

*2) Diazomethan (M. 24, 364 C. 1903 [2] 507).

*1) Dibrommethan (M. 24, 783 C. 1904 [1] 157).

*1) Trithiokohlensäure. Salze siehe (B. 36, 1146 C. 1903 [1] 1176).

*1) Fluormethan. Sd. —78° bei 742,5° (Soc. 85, 1317 C. 1904 [2] 1281).

1) Arsenmethyl. C.H., As, ? Sd. 190°₁₃ (C. r. 138, 1705 C. 1904 [2] 415).

*1) Methylamin. (HCl, 2HgCl₂) (J. pr. [2] 66, 466 C. 1903 [1] 561; B. 36, 3945 C. 1904 [2] 1610).

C 11,5 — H 7,7 — N 80,8 — M. G. 104.

1) Hydrazondihydrazidomethan (Triamidoguanidin). HCl (B. 37, 3548 C. 1904 [2] 1270). - 1 II -CHN CHCl, CHBr. CHJ_a CH₂O CH₂O₂ CH₂O₄ CH2N2 CH, Br, CH2S3 CH,F CH, As CH-N CH,N, CH,N 1) Hydrazondihydrazidomethan (Triamidoguanidin). HCl (B. 37, 3548 C. 1904 [2] 1379). *1) Tetranitromethan (B. 36, 2225 C. 1903 [2] 421). *1) Verbindung. (C. 1903 [1] 19). CO8N4 CBr.S. - 1 III -CHO,N, *1) Trinitromethan. NH, (B. 36, 2227 C. 1903 [2] 421; G. 33 [2] 323 C. 1904 [1] 256). *1) Rhodanwasserstoffsäure. Salze siehe (C. 1903 [2] 550; Am. 29, 474 C. 1903 [1] 1307; Am. 30, 145 C. 1903 [2] 715; Am. 30, 184 C. 1903 [2] 873).

CHNS $CH_2O_8N_2$ *1) Methylnitrolsäure. Sm. 68° u. Zers. (G. 33 [1] 510 C. 1903 [2] 937)

 $CH_2O_4N_2$ Dinitromethan. K, Phenylhydrazinsalz, Benzylaminsalz (B. 35, 4289) C. 1903 [1] 279).

CH₅O₃As CO₄N₂Br₂

*1) Formaldoxim (B. 35, 4301 C. 1903 [1] 280).
*2) Amid d. Ameisensäure. (2 HCl, PtCl₄) (B. 36, 154 C. 1903 [1] 444).
*1) Arsenmethyloxyd. Sm. 95° (C. r. 137, 926 C. 1904 [1] 80).
*1) Nitromethan (B. 35, 4300 C. 1903 [1] 280; B. 36, 3297 C. 1903 [2] CH₃ON CH, OAs CH₃O₂N 1164). *4) Formhydroxamsäure (B. 35, 4299 C. 1903 [1] 280).
1) Methylzinnehlorid. Sm. 43° (105—107°?); Sd. 179—180° (C. 1903 [2] CH₃Cl₃Sn 106, 553; B. 36, 3027 C. 1903 [2] 938).
1) Methylzinnbromid. Sm. 50—55° (53°) (C. 1903 [2] 106, 553; B. 36, CH₈Br₈Sn 1059 C. 1903 [1] 1120). 1) Methylzinnjodid. Sm. 82-84° (86,5°) (C. 1903 [2] 106, 552; B. 36, CH_3J_3Sn 1058 C. 1903 [1] 1120).

*1) Harnstoff (M. 24, 218 C. 1903 [2] 57; J. pr. [2] 67, 274 C. 1903 [1] 1218; B. 36, 1926 C. 1903 [2] 193; B. 36, 3025 C. 1903 [2] 957; Soc. 83, 1391 C. 1904 [1] 160, 437; B. 37, 2293 C. 1904 [2] 186). CH4ON2 *4) Dinitromethylsäure (Nitrosomethylhydroxylamin). Cu $+ \frac{1}{2}$ H₂O (A. 329, 193 C. 1903 [2] 1414). $CH_4O_2N_2$ *1) Zinnmethylsäure (Methylstannonsäure). (C. 1903 [2] 553; B. 36, 1060 CH₄O₂Sn C. 1903 [1] 1120).

*1) Thioharnstoff. 4 + Ammoniumthiocyanat (Soc. 83, 1 C. 1903 [1] 77, 447; Z. a. Ch. 34, 62 C. 1903 [1] 699; B. 36, 1151 C. 1903 [1] 1177; B. 36, 1928 C. 1903 [2] 193; B. 37, 242 C. 1904 [1] 651).

*1) Arsenmethylsäure (C. 1903 [1] 280; C. r. 139, 212 C. 1904 [2] 640).

*1) Dibromdinitromethan (B. 35, 4291 C. 1903 [1] 279). CH,N,S

- 1 IV

CHO, N, Br *1) Bromdinitromethan. K (B. 35, 4292 C. 1903 [1] 279).

- 1 V -

CH4ONCl2P 1) Methylmonamid d. Phosphorsäuredichlorid. Sd. 132 1/27 (A. 326, 172 C. 1903 [1] 819). CH, NCl₂SP 1) Methylmonamid d. Thiophosphorsäuredichlorid. Sd. 115 ° (A. 326, 201 C. 1903 [1] 821).

C2-Gruppe.

*1) Aethin. Na (C. 1904 [2] 1024). C_2H_2 *1) Tetrachloräthen (G. 34 [1] 249 C. 1904 [1] 1481).

*1) Hexachloräthen (C. 1903 [2] 1052).

1) Dibromäthin. Sd. 76—77° (C. r. 136, 1333 C. 1903 [2] 102; C. r. 137, 55 C. 1903 [2] 551). C2Cl4 C2Cl6 C_2Br_2 *1) Tetrabromäthen. Sm. 55—56° (C. r. 136, 1334 C. 1903 [2] 102). *1) Hexabromäthan (C. 1903 [2] 1053). C_2Br_4 $C_2 \mathbf{Br}_6$ *1) Dijodäthin (B. 37, 3453 C. 1904 [2] 1281).
1) Kohlenstoffeäsium (C. r. 136, 1220 C. 1903 [2] 105).
1) Kohlenstoffrubidium (C. r. 136, 1221 C. 1903 [2] 105). C_2J_2 C_2C_3 C_2Rb_2 - 2 II *1) Pentachloräthan (G. 34 [1] 249 C. 1904 [1] 1481).
*1) Pentabromäthan (C. 1904 [1] 715).
*1) Oxalsäure. (NH₄, HF), (K, HF), (Rb, HF) (A. 328, 151 C. 1903 [2] 987; H. 37, 225 C. 1903 [1] 593; C. 1903 [2] 657, 658, 1240, 1241; 1904 [1] 81, 350, 505).
*1) Pentachloräthan (G. 1004 [2] 12) C_2HCl_5 C,HBr C2H2O *1) Perkohlensäure. K₂ (C. 1904 [2] 13).
*2) $\alpha\alpha\beta\beta$ -Tetrachloräthan (D.R.P. 154657 C. 1904 [2] 1177).
*1) Nitril der Essigsäure (B. 35, 4298 C. 1903 [1] 280).
*2) Aethylenoxyd (B. 36, 2017 C. 1903 [2] 338; A. 335, 200 C. 1904 C₂H₂O₆ C₂H₂Cl₄ C_2H_2N $C_{n}^{T}H_{n}^{T}O$ [2] 1201). *4) Aldehyd d. Essigsäure (*Ph. Ch.* 43, 131 *C.* 1903 [1] 1078). *1) Essigsäure. NH4, + 4AlCl₃ (*M.* 23, 1040 *C.* 1903 [1] 386; *Soc.* 85, 1108 *C.* 1904 [2] 976). C2H4O2

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*2) Aldehyd d. Oxyessigsäure (H. 38, 148 C. 1903 [1] 1426).
C_2H_4O_2
                                    *3) Diformaldehyd (C. 1904 [2] 586).
*1) Glyoxylsäure. Salze siehe (B. 37, 3189 C. 1904 [2] 1108; Soc. 85,
C_2H_4O_4
                                               1382 C. 1904 [2] 1705).
                                   1382 C. 1904 [2] 1705).
*3) Nitril d. Amidoessigsäure. H<sub>2</sub>SO<sub>4</sub>, Pikrat (B. 36, 1511 C. 1903 [1] 1303; Bl. [3] 29, 1197 C. 1904 [1] 353).
*1) Dicyandiamid (C. 1903 [2] 225).
*1) αα-Dichloräthan (B. 37, 2398 C. 1904 [2] 301).
*2) αβ-Dichloräthan (B. 37, 2398 C. 1904 [2] 301).
*2) αβ-Dibromäthan (G. 33 [1] 77 C. 1903 [1] 1109).
*1) Amidoäthen (C. 1903 [2] 1165; A. 330, 280 C. 1904 [1] 999).
1) Arsenäthyl (C. r. 138, 1707 C. 1904 [2] 416).
*2) Dimethyläther. Sm. —117,6°. + 5 HCl (C. 1904 [1] 1195; Soc. 85, 927 C. 1904 [2] 585).
 C_2H_4N_2
 C_2H_4N_4
 C_2H_4Cl_2
 C_2H_4Br_2
\mathbf{C}_{2}\mathbf{H}_{5}\mathbf{N}
C<sub>2</sub>H<sub>5</sub>As
 C_2H_6O
                                              927 C. 1904 [2] 585).
                                    *1) αβ-Dioxyäthan (A. 335, 200 C. 1904 [2] 1201).
*1) Merkaptoäthan (G. 33 [1] 77 C. 1903 [1] 1109).
*2) Dimethylsulfid (G. 33 [1] 77 C. 1903 [1] 1109).
*1) Aethylamin (B. 36, 3945 C. 1904 [1] 352).
 C_2H_6O_2
C,H,S
 C2H7N
                                     *2) Dimethylamin. (HCl + 3 \text{ HgCl}_2 + H_2O) (J. pr. [2] 66, 467 C. 1903
                                     [1] 561)
*1) \alpha\beta-Diamidoäthan. 4 + CdJ<sub>2</sub>, 3 + 2CdJ<sub>2</sub>, 2 + CdJ<sub>2</sub> (C. r. 136, 688 C. 1903 [1] 919; B. 36, 3831 C. 1904 [1] 19; D.R.P. 147943
 C_2H_8N_2
                                                C. 1904 [1] 133).

    Verbindung + 2½, H<sub>2</sub>O (aus d. Verb. C<sub>6</sub>H<sub>6</sub>O<sub>6</sub>Hg<sub>3</sub>). Explodiert bei 200° (B. 36, 3708 C. 1903 [2] 1240).
    Cyansenföl. Sd. 220° (A. 331, 289 C. 1904 [2] 31).

 C_2O_8Hg_3
 C_2N_2S
                                     2) \alpha \alpha \alpha \beta-Tetrachlor-\alpha \beta-Dibromäthan (C. 1903 [2] 1053).

*2) \alpha \alpha \alpha \beta-Tetrachlor-\alpha \beta-Dibromäthan (C. 1903 [2] 1053).

1) \alpha \beta \beta \beta-Tetrachlor-\alpha \alpha-Difluoräthan. Sm. 52°; Sd. 91° (C. 1903 [1] 13).

2) \alpha \beta-Dibrom-\alpha \beta-Dijodäthen. Sm. 95–96° (C. r. 136, 1334 C. 1903).
 C_2Cl_4Br_2
 C<sub>2</sub>Cl<sub>4</sub>F<sub>2</sub>
 C_2Br_2J_2
                                               [2] 102).
                                                                                                       _ 2 III .—

*5) Chloralhydrat (Soc. 85 1376 C. 1904 [2] 1597).
7) polym. Chloral (D. R. P. 139392 C. 1903 [1] 743).

 C2HOCl3

7) polym. Chloral (D. R.P. 139392 C. 1903 [1] 743).
*1) Trichloressigsäure. Pyridinsalz, Chinolinsalz (A. 326, 313 C. 1903 [1] 1088; C. 1903 [2] 1238; 1904 [1] 1642, 1643).
*1) Tribromessigsäure. Derivate siehe (C. 1903 [2] 1238; 1904 [1] 1642).
1) ββ-Dichlor-α-Fluoräthen. Sd. 37,5° (C. 1903 [1] 13).
1) Dichlortrifluoräthan. Sd. 25-30° (C. 1903 [1] 13).
1) Trichlordifluoräthan. Sd. 70-72° (C. 1903 [1] 13).
1) αβββ-Tetrachlor-α-Fluoräthan. Sd. 116,5° (C. 1908 [1] 13).
1) Acetylenmagnesiumbromid (C. 1904 [2] 943).
*5) polym. Nitril d. Nitroessigsäure. Sm. 216° (C. 1904 [2] 1537.
*1) Dichloressigsäure. Pyridinsalz. Chinolinsalz. Strychninsalz (A. 326.

  C_2HO_2Cl_3
  C2HO2Br3
  C<sub>2</sub>HCl<sub>2</sub>F
  C<sub>2</sub>HCl<sub>2</sub>F<sub>3</sub>
  C_2HCl_8F_2
  C,HCl,F
  C<sub>2</sub>HBrMg
  \mathbf{C}_{2}^{\mathsf{T}}\mathbf{H}_{2}\mathbf{O}_{2}\mathbf{N}_{2}
                                                                                                            Pyridinsalz, Chinolinsalz, Strychninsalz (A. 326,
  \mathbf{C}_{2}^{\mathsf{T}}\mathbf{H}_{2}^{\mathsf{T}}\mathbf{O}_{2}^{\mathsf{T}}\mathbf{C}\mathbf{I}_{2}^{\mathsf{T}}
                                      *1) Dichloressigsäure.
                                                 319 C. 1903 [1] 1088).
                                      *1) Diffuoressigsäure. Sd. 134,2°, Na, Ca, Ba, Pb, Hg, Ag (C. 1903)
 C_2H_2O_2F_2
                                                 [2] 709).
                                     1) Dithioloxalsäure. Na<sub>2</sub> (C. r. 136, 555 C. 1903 [1] 816). *1) \alpha\alpha\beta\beta-Tetranitroäthan. K<sub>2</sub> (B. 35, 4288 C. 1903 [1] 279). 2) 1,2,3-Thiodiazol. Sd. 157^{6}_{742}. HCl. (HCl, AuCl<sub>3</sub>), + AuCl<sub>3</sub> (A. 333, 1004 fbl. 750).
  C_2H_2O_2S_2
  C_2H_2O_8N_4
  C_3H_3N_3S
                                                 19 C. 1904 [2] 781).
                                      *1) \alpha-Cyanimido-\alpha\alpha-Dimerkaptomethan (Dithiocyansäure). K<sub>2</sub> (A. 331,
  C_2H_2N_2S_2
                                                 283 C. 1904 [2] 31).
                                      *3) Isopersulfocyansäure (A. 331, 290 C. 1904 [2] 31).
  C_2H_2N_2S_3
                                         4) 5-Imido-3-Thiocarbonyl-4,5-Dihydro-1,2,4-Dithioazol (Xanthan-
                                     4) δ-1 Inico-3-Thickerponyl-4, 5-Dinydro-1, 2, 4-Dithicker wasserstoff) (A. 331, 294 C. 1904 [2] 32).

1) \beta-Chlor-\alpha-Fluoräthen. Sd. 10-11^{\circ} (C. 1903 [1] 13).

1) \alpha-Chlor-\alpha \beta-Trifluoräthan. Sd. 17^{\circ} (C. 1903 [1] 13).

1) \beta-Dichlor-\alpha \alpha-Difluoräthan. Sd. 60^{\circ} C. 1903 [1] 13).

1) \alpha \beta \beta-Trichlor-\alpha-Fluoräthan. Sd. 103^{\circ} (C. 1903 [1] 13).

5) Chlorid d. Essigsäure (D.R.P. 151864 C. 1904 [2] 69).

1) Urazol. Sm. 243° (B. 36, 745 C. 1903 [1] 827).
   C,H,ClF
  C<sub>2</sub>H<sub>2</sub>ClF<sub>3</sub>
C<sub>2</sub>H<sub>2</sub>Cl<sub>2</sub>F<sub>2</sub>
C<sub>2</sub>H<sub>2</sub>Cl<sub>3</sub>F
C<sub>2</sub>H<sub>3</sub>CCl
   C2H3O2N8
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*1) Oximidoessigsäure. Sm. 143-144° u. Zers. (Bl. [3] 31, 677 C. 1904
C_2H_3O_8N
                         [2] 195).
                         Oxaminsaure. Sm. 210°. NH<sub>4</sub>, Ag, Methylaminsalz (Soc. 83, 22 C. 1903 [1] 448; B. 37, 2930 C. 1904 [2] 1241).
                   *2) Oxaminsäure.
                     3) Gem. Anhydrid d. Salpetrigensäure u. Essigsäure (Nitrosoacetan-
                   5) Gem. Annydrid d. Salpetrigensaure u. Essigsaure (Nitrosoacetanhydrid). Fl. (C. 1903 [2] 656; G. 34 [1] 439 C. 1904 [2] 511). C 19,8 — H 2,5 — O 66,1 — N 11,6 — M. G. 121.

1) Nitrat d. Oxyessigsäure. Sm. 54,5 ° (Bl. [3] 29, 602 C. 1903 [2] 342).

1) αβ-Dichlor-α-Imidoäthan (J. pr. [2] 69, 352 C. 1904 [2] 510).

1) β-Chlor-α-Difluoräthan. Sd. 36 ° (C. 1903 [1] 438).

*2) s-Dichlormethyläther (A. 330, 112 C. 1904 [1] 1063; C. r. 138, 1110 C. 1904 [1] 1642; A. 334, 15 C. 1904 [2] 947).

1) ββ-Difluor-α-Oxyäthan. Sm. —28,2°; Sd. 95,5—96°. Na (C. 1903 [1] 436. 1903 [2] 486)
C_2H_3O_5N
C_2H_3NCl_2
C2H3CIF2
C<sub>2</sub>H<sub>4</sub>OCl<sub>2</sub>
C<sub>2</sub>H<sub>4</sub>OF<sub>2</sub>
                         [1] 436; 1903 [2] 486).
                    *1) αβ-Dioximidoathan. Sm. 178,5° (B. 36, 3831 C. 1904 [1] 19).
C_2H_4O_2N_2
                    *1) ββ-Dichlor-αα-Dioxyäthan. Sm. 55-56°; Sd. 96-97,5° (G. 33 [2]
C2H4O2Cl2
                          395 C. 1904 [1] 921).
                    *1) Merkaptoessigsäure. Salze (Z. a. Ch. 41, 235 C. 1904 [2] 1107).
*1) Aethylnitrolsäure. Sm. 87—88° u. Zers. (G. 33 [1] 510 C. 1903 [2]
C_2H_4O_2S
C_2H_4O_3N_2
                          937).
                  *5) Methazonsäure. Ag. (M. 25, 719 C. 1904 [2] 1110).
*11) Hydroxyloxamid (A. 326, 259 C. 1903 [1] 736).
12) Amid d. Nitroessigsäure. Zers. bei 97—98°. NH<sub>4</sub>, Ag (M. 25, 708
                          C. 1904 [2] 1110).
                    13) Amid. d. Oximidooxyessigsäure. Ag (Soc. 81, 1565 C. 1903 [1] 157).
                      1) Gem. Anhydrid d. Essigsäure u. Chromsäure. (Acetylchromsäure
 C<sub>2</sub>H<sub>4</sub>O<sub>5</sub>Cr
                          (B. 34, 2216 C. 1903 [2] 419).
                      2) Dimerkaptomethylenthioharnstoff? K_2 (A. 331, 288 C. 1904 [2] 31).
 C_2H_4N_2S_3
                    <sup>*</sup> 1) Acetaldoxim (B. 35, 4298 C. 1903 [1] 280).
 C,H,ON
                    *3) Aldehyd d. Amidoessigsäure. (2HCl, PtCl<sub>4</sub>) (B. 37, 613 C. 1904 [1]
                          924).
                    *4) Amid. d. Essigsäure. HBr, HJ (B. 36, 154 C. 1903 [1] 444).
*3) Chlordimethyläther. Sd. 60° (B. 36, 1384 C. 1903 [1] 1295; A. 334,
 C<sub>2</sub>H<sub>5</sub>OCl
                          49 C. 1904 [2] 948).
                    *1) Nitroathan (B. 35, 4297 C. 1903 [1] 280
 C_9H_5O_9N
                    *3) Acethydroxamsäure (B. 35, 4295 C. 1903 [1] 280; B. 36, 817 C. 1903
                          [1] 1017).
                    *6) Amidoessigsäure (D.R.P. 141976 C. 1903 [1] 1381; H. 39, 464
                          C. 1903 [2] 961).
                    *7) Methylester d. Amidoameisensäure. Sm. 57-58° (B. 36, 2475
                    C. 1903 [2] 559).
*8) Amid d. Oxyessigsäure. Sm. 120° (B. 37, 2636 Anm. C. 1904 [2]
                          518).
                    *2) Biuret. 2 + CdCl<sub>2</sub> (H. 43, 72 C. 1904 [2] 1610).
C_2H_5O_2N_3
C2H5O3N
                      6) \beta-Oximido - \alpha\beta-Dioxyäthan (Glykolhydroxamsäure). Cu (G. 34 [2] 73
                          C. 1904 [2] 734).
                      2) Aethylenester d. Phosphorsäure (C. r. 138, 375 C. 1904 [1] 786).
C2H5O4P
                      1) \beta\beta-Diffuor-\alpha-Amidoäthan. Sd. 67,5-67,8%. HCl, (2HCl, PtCl<sub>4</sub>),
C_2H_5NF_2
                          H<sub>2</sub>SO<sub>4</sub>, Oxalat (C. 1904 [2] 944).
                    *1) Methylester d. Amidodithioameisensäure. Sm. 40—42° (C. r. 135, 975 C. 1903 [1] 139).
C, H, NS,
C.H.Cl.Si
                    *1) Siliciumäthyltrichlorid (C. 1904 [1] 636).
                    *1) Zinkäthyljodid (C. 1903 [2] 339).
C_2H_5JZn
                   *1) 211. Ratin/1jodid (C. 1905 [2] 559).

1) Antimonäthyljodid. Sm. 43° (C. r. 139, 599 C. 1904 [2] 1451).

*5) Amid d. Amidoessigsäure (A. 327, 368 C. 1903 [2] 660).

*6) Hydrazid d. Essigsäure. Sd. 129°<sub>18</sub> (J. pr. [2] 69, 145 C. 1904 [1] 1274).

*1) Zinndimethyloxyd (C. 1903 [2] 553; B. 36, 3030 C. 1903 [2] 938).

*2) Amid d. Hydrazodicarbonsäure. Sm. 257° (246°) (B. 35, 4215 C. 1903 [1] 161; G. 33 [1] 322 C. 1903 [2] 281; B. 36, 4379 C. 1904
C_2H_5J_2As
C,HON,
C2H6OSn
C2H6O2N4
                          [1] 454).
                    *4) Dihydrazid d. Oxalsäure. Sm. 241° u. Zers. (B. 37, 2202 C. 1904
                         [2] 323).
                   *1) Aethansulfinsäure. Mg + 2H<sub>2</sub>O (B. 37, 2153 C. 1904 [2] 186). 
*2) Dimethylsulfon. Sm. 110° (B. 37, 3550 C. 1904 [2] 1377).
C2H6O2S
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*1) Aethansulfonsäure. Aethylaminsalz (B. 37, 3803 C. 1904 [2] 1564). *2) Dimethylester d. Schwefelsäure (A. 327, 105 C. 1903 [1] 1213). *1) Aethan- $\alpha\alpha$ -Disulfonsäure. (NH₄)₂ (B. 37, 3808 C. 1904 [2] 1564). *2) Aethan- $\alpha\beta$ -Disulfonsäure. (NH₄)₂ (B. 37, 3806 C. 1904 [2] 1564). 2) Dimethylbromamin. Sd. 64-66° (B. 37, 1783 C. 1904 [1] 1483). $C_2H_6O_3S$ $\mathbf{C}_{2}\mathbf{H}_{6}\mathbf{O}_{4}\mathbf{S}$ $\mathbf{C}_{2}\mathbf{H}_{6}\mathbf{O}_{6}\mathbf{S}_{2}$ C2H6NBr 2) Methyläther d. Amidoimidomerkaptomethan (Methylpseudothio- $C_2H_6N_2S$ harnstoff). HCl, HJ, Chloracetat (Soc. 83, 567 C. 1903 [1] 1123; Am. 29, 482, 492 C. 1903 [1] 1309). C.H.CITI 1) Thalliumdimethylchlorid. Zers. oberh. 280° (B. 37, 2057 C. 1904 [2] 20). 1) Thalliumdimethylbromid. Zers. oberh. 275° (B. 37, 2055 C. 1904 C2HBrTl [2] 20). *1) Zinndimethylbromid. Sm. 74° (B. 36, 1058 C. 1903 [1] 1120).
1) Thalliumdimethyljodid. Zers. bei 264—266° (B. 37, 2056 C. 1904 C₂H₆Br₂Sn C,H,JTI *1) Zinndimethyljodid. Sm. 32° (B. 36, 1058 C. 1903 [1] 1120).
1) Methylzinnsulfid (B. 36, 3029 C. 1903 [2] 938). $C_2H_6J_2Sn$ C2H6S3Sn2 C2H7ON8 2) Hydrazid d. Amidoessigsäure. Sm. 80-85°. HCl (J. pr. [2] 70, 102 C. 1904 [2] 1035).
C 18,0 — H 5,3 — O 24,1 — N 52,6 — M. G. 133.
Dihydrazid d. Imidodiameisensäure. Sm. 199—200° u. Zers. (B. 36, $C_2H_7O_2N_5$ 744 C. 1903 [1] 827). *1) Kakodylsäure (B. 36, 3325 C. 1903 [2] 1165; B. 37, 153 C. 1904 [1] 578; B. 37, 1076 C. 1904 [1] 1327; B. 37, 2289 C. 1904 [2] 186; B. 37, 2705 C. 1904 [2] 416; B. 37, 3625 C. 1904 [2] 1451).

*1) Aethylphosphorsäure (C. r. 138, 762 C. 1904 [1] 1196).

*3) a-Oxyäthylphosphinsäure (C. r. 136, 48 C. 1903 [1] 439). $\mathbf{C}_{2}\mathbf{H}_{7}\mathbf{O}_{2}\mathbf{A}\mathbf{s}$ $C_2H_7O_4P$ 1) Mono $[\beta$ -Oxyäthylester] d. Phosphorsäure. Ba + H₂O, Chininsalz (C. r. 138, 375 C. 1904 [1] 786). $C_2H_7O_5P$ 1) Thalliumdimethylsulfhydrat (B. 37, 2056 C. 1904 [2] 20).
1) Dimethylpyroarsinsäure. Na₂ (C. r. 139, 411 C. 1904 [2] 764).
2) Verbindung (aus d. Verb. C₄H₁₀O₆P₂) (C. r. 136, 757 C. 1903 [1] C_2H_7ST1 $\mathbf{C}_{2}^{"}\mathbf{H}_{8}^{"}\mathbf{O}_{5}\mathbf{A}\mathbf{s}$ $C_2H_8O_6P_2$ 1017). Säure (aus Chlorophyllpflanzen). (Na₄, Ca₂ + 8H₂O) (C. r. 137, 338 C. 1903 [2] 728; C. r. 137, 439 C. 1903 [2] 797; H. 40, 121 C. 1904 [1] 191; Am. 31, 569 C. 1904 [2] 47). $\mathbf{C}_{2}\mathbf{H}_{8}\mathbf{O}_{9}\mathbf{P}_{2}$ - 2 IV -1) Chlorid d. Diffuoressigsäure. Sd. 25° (C. 1903 [2] 710).
1) Fluorid d. Dichloressigsäure. Sd. 70,5° (C. 1903 [1] 13).
*1) Bromid d. Bromfuoressigsäure. Sd. 112,5° (C. 1903 [1] 12). C2HOCIF2 C₂HOCl₂F

C₂H₃ONCl₂ 3) Chloramid d. Chloressigsäure. Sm. 68—69° (G. 33 [1] 231 C. 1903 [2] 24).

C₂H₃ONJ₂ *1) Amid d. Dijodessigsäure. Sm. 201—202° u. Zers. (B. 37, 1787 C. 1904 [1] 1484).

C₂H₃ONF₂ 1) Amid d. Difluoressigsäure. Sm. 50,2° (C. 1903 [2] 710).

 $C_2^{\dagger}H_8^{\dagger}O_2$ Br Hg^{*1}) Quecksilberbromidessigsäure. Sm. 198° (A. 329, 189° C. 1903 [2] 1414).

C₂H₃O₃NS 2) Methylsulfonisocyansäure. Sm. 31°; Sd. 73,5—75°₁₂ (B. 36, 3214 C. 1903 [2] 1055).

C₂H₃O₃N₂Br 2) Amid d. Bromnitroessigsäure. Sm. 80—81° (79°). NH₄ (B. 87, 1786 C 1904 [1] 1483; M. 25, 728 C. 1904 [2] 1111). C₂H₄ONC1 *2) Amid d. Chloressigsäure. Hg (G. 33 [1] 229 C. 1903 [2] 24).

 $C_2H_4ONCl^{-2}$) Amid d. Chloressigsaure. Hg (6. 33 [1] 229 C. 1903 [2] 24). $C_2H_4OCl_3P$ 1) β -Chloräthyläther d. Dichloroxyphosphin (C. r. 136, 756 C. 1903 [1] 1017).

 C_3H_2O

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C_2H_4O_2NC1 *3) Nitrit d. \beta-Chlor-\alpha-Oxyäthan. Sd. 95—96^{\circ}_{764} (C. 1903 [1] 436).

    4) β-Chlor-αOximido-α-Oxyäthan (Chloracethydroxamsäure). Sm. 108°
    u. Zers. (G. 34 [1] 430 C. 1904 [2] 511).

C_2H_4O_2N_2F_2 1) \beta\beta-Difluor-\alpha-Nitramidoäthan. Sm. 22,4^\circ; Sd. 111-112^\circ_{12}. NH<sub>4</sub>, Na
                     (C. 1904 [2] 945).
                 2) β-Chlorathylather d. Chlordioxyphosphin (C. r. 136, 757 C. 1903
C_2H_5O_2Cl_2P
                     [1] 1017).
C<sub>2</sub>H<sub>5</sub>O<sub>3</sub>ClS *4) Chlorid d. Aethylschwefelsäure. Sd. 58°<sub>20</sub> (Am. 30, 213 C. 1903
                     [2] 936).

    β-Chloräthyläther d. Trioxyphosphin (C. r. 136, 757 C. 1903 [1] 1017).
    Aethylamidodichlorphosphin. Sd. 222-225° (A. 326, 150 C. 1903

C,H,O,ClP
C.H.NCl.P
                     [1] 760).
C,H,NCl,P
                 1) Dimethylamidophosphortetrachlorid. + PCl<sub>5</sub> (A. 326, 160 C. 1903
                     [1] 761).
                                                      2 V
C.HOCIBrF
                     1) Chlorid d. Bromfluoressigsäure. Sd. 98^{\circ}_{765} (C. 1903 [1] 12). 2) Bromamid d. Chloressigsäure. Sm. 61-63^{\circ} (G. 33 [1] 229 C. 1903
C<sub>2</sub>H<sub>3</sub>ONClBr
                         [2] 24).
C,H,ONCIJ
                      1) Amid d. Chlorjodessigsäure. Sm. 140—141° (B. 37, 1786 C. 1904
                         [1] 1484).
                      1) Amid d. Bromfluoressigsäure. Sm. 44° (C. 1903 [1] 12).
1) Amid d. Jodfluoressigsäure. Sm. 92,5° (C. 1903 [1] 13).
C2H3ONBrF
C<sub>2</sub>H<sub>3</sub>ONJF
C2H6ONCl2P

    Dimethylmonamid d. Phosphorsäuredichlorid. Sd. 194—195°
    (A. 326, 179 C. 1903 [1] 819).

                      2) Aethylmonamid d. Phosphorsäuredichlorid. Sd. 140% (A. 326,
                         172 C. 1903 [1] 819).
C2H6NCl2SP
                      1) Dimethylmonamid d. Thiophosphorsäuredichlorid. Sd. 85 bis
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C_s-Gruppe.

Aethylmonamid d. Thiophosphorsäuredichlorid. Sd. 216° (A. 326, 202 C. 1903 [1] 821).

90°₁₆ (A. 326, 210 C. 1903 [1] 822).

C₈H₆ *1) Propylen (B. 36, 1997 C. 1903 [2] 335). *2) R-Trimethylen (B. 36, 2014 C. 1903 [2] 337).

- 3 II -

*1) Aldehyd d. Aethincarbonsäure (B. 36, 3664 C. 1903 [2] 1312).

$C_8H_4O_3$	*3) Brenztraubensäure. Ba, Pb, $(NH_4 + NH_4 \cdot HSO_3)$, $(NH_4 \cdot HSO_3)$ (R. 21, 299 C. 1903 [1] 17; H. 42, 121 C. 1904 [2] 664).
	11) Methylester d. Glyoxylsäure. Sm. 53° (B. 37, 3592 C. 1904 [2] 1378).
$C_3H_4O_4$	*1) Malonsäure (C. 1903 [2] 712; C. r. 135, 1351 C. 1903 [1] 320; C.
0811404	1904 [1] 505).
$\mathbf{C_3H_4N_2}$	*2) Imidazol. Benzoat (B. 37, 3115 C. 1904 [2] 1316).
	*3) Nitril d. Methylenamidoessigsäure. Sm. 129° (B. 36, 1507 C. 1903
	[1] 1302).
	*4) isom. Nitril d. Methylenamidoessigsäure. Sm. 86° (B. 36, 1508
	C. 1903 [1] 1302).
$\mathbf{C_3H_5N}$	*3) Nitril d. Propionsäure (G. 33 [1] 77 C. 1903 [1] 1109).
$\mathbf{C}_{3}\mathbf{H}_{5}\mathbf{N}_{8}$	*3) 4-Amidopyrazol. Sm. 80—82°. 2HCl, 2HNO ₃ , 2 Pikrat. Pikrolonat
	(B. 37, 3520 C. 1904 [2] 1313).
	5) 3- oder 5-Amidopyrazol. Sd. 282° ₇₅₃ (B. 37, 3522 C. 1904 [2] 1314).
C_8H_8O	*3) αβ-Propylenoxyd (B. 36, 2017 C. 1903 [2] 338; A. 335, 201 C. 1904
•	[2] 1201).
	*7) Aceton. 2 + 5HCl, + HBr, 2 + HJ (Soc. 85, 924 C. 1904 [2] 585).
	11) Porinin. = $(C_0H_0O)x$. Sm. $70-71^{\circ}$ (J. vr . [2] 68, 63 C 1903 [2] 513
$C_8H_6O_2$	*2) Acetol (C. r. 135, 970 C. 1903 [1] 132; A. 335, 247 C. 1904 [2] 1283).
0 0 2	*3) Glycid. Sd. 62° ₁₅ (A. 335, 231 C. 1904 [2] 1204).
	*4) Propionsäure. NH ₄ (G. 33 [1] 77 C. 1903 [1] 1109; M. 23, 1053
	C. 1903 [1] 386).
	*6) Methylester d. Essigsäure (B. 37, 3659 C. 1904 [2] 1452).
	, the second (2. 37) 0000 0. 2001 [b] 140b).

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C3H6O2
                      7) Aldehyd d. β-Oxypropionsäure. Sd. 90°<sub>18</sub> (A. 335, 219 C. 1904
                           [2] 1203).
                     *1) Dioxyaceton (C. 1904 [2] 1291)
 C_3H_6O_3
                     *2) Trioxymethylen (Bl. [3] 27, 1212 C. 1903 [1] 224; Bl. [3] 29, 87
                           C. 1903 [1] 501).
                     *4) i-Milchsäure (D.R.P. 140319 C. 1903 [1] 1106; Ar. 241, 421 C. 1903
                     [2] 1027; C. r. 139, 204 C. 1904 [2] 641).

*5) d-Milchsäure (H. 37, 203 C. 1903 [1] 593; C. r. 139, 204 C. 1904
                           [2] 641).
                     *6) 1-Milchsäure (Soc. 83, 259 C. 1903 [1] 564, 869; C. r. 139, 204
                           C. 1904 [2] 641).
CaHaOa
                     *1) \mathbf{r}-\alpha\beta-Dioxypropionsäure (H. 42, 61 C. 1904 [2] 608).
                     *3) d-αβ-Dioxypropionsäure. Ba (B. 37, 340 C. 1904 [1] 645).
4) 1-αβ-Dioxypropionsäure. Ba (B. 16, 2720; B. 37, 339 C. 1904 [1]
                                    — I, 623.
                     *2) Nitril d. i-α-Amidopropionsäure. HCl, (2HCl, PtCl<sub>4</sub>), H<sub>2</sub>SO<sub>4</sub>, Pikrat,
C_3H_6N_2
                          Tartrat (Bl. [3] 29, 1197 C. 1904 [1] 353; Bl. [3] 29, 1180 C. 1904 [1] 353; Bl. [3] 29, 1190 C. 1904 [1] 360).
                    *3) Nitril d. Methylamidoessigsäure. H<sub>2</sub>SO<sub>4</sub> (B/. [3] 29, 1199 C. 1904
                          [1] 354.
                      6) Nitril d. d-α-Amidopropionsäure. H<sub>2</sub>SO<sub>4</sub>, Tartrat (Bl. [3] 29, 1195

C. 1904 [1] 361).
Nitril d. 1-α-Amidopropionsäure. H<sub>2</sub>SO<sub>4</sub>, Tartrat (Bl. [3] 29, 1195

                           C. 1904 [1] 361).
                    *1) 3,5-Diamidopyrazol (B. 37, 3524 C. 1904 [2] 1314).
C<sub>8</sub>H<sub>6</sub>N<sub>4</sub>
                      3) 1-Amido-5-Methyl-1, 2, 3-Triazol. Sm. 70°. HCl (B. 36, 3617 C. 1903
                          [2] 1381).
C_3H_6S_3
                    *1) Trimethylensulfid. Sm. 216° (C. 1904 [2] 21)
                    *1) a-Oxypropan. + 5HCl, + 2HBr, + 2HJ (C. r. 137, 302 C. 1903 [2] 708; Soc. 85, 928 C. 1904 [2] 585).
C_3H_8O
                    *2) β-Oxypropan (C. r. 137, 302 C. 1903 [2] 708).
                    *1) αβ-Dioxypropan (A. 335, 201 C. 1904 [2] 1201).

*2) αγ-Dioxypropan (M. 25, 267 C. 1904 [1] 1401; A. 335, 206 C. 1904 [2] 1202).
C<sub>3</sub>H<sub>3</sub>O<sub>2</sub>
                    *1) αβη-Trioxypropan. Na (A. 335, 209 C. 1904 [2] 1202; A. 335, 279 C. 1904 [2] 1284).
C<sub>3</sub>H<sub>8</sub>O<sub>8</sub>
                   *3) Methyläthylsulfid (G. 33 [1] 77 C. 1903 [1] 1109).
*1) α-Amidopropan. (2HCl, SnCl<sub>4</sub>) (C. 1904 [1] 923).
*2) Isopropylamin (B. 36, 703 C. 1903 [1] 818).
*4) Trimethylamin. (HCl + 6HgCl<sub>2</sub> + H<sub>2</sub>O) (J. pr. [2] 66, 468 C. 1903 [1] 561; A. 334, 229 C. 1904 [2] 900).
3) Propylphosphin. Sd. 53-53,5° (A. 241, 411 C. 1903 [2] 987).
*1) αβ-Diamidopropan. (2HCl, PtCl<sub>4</sub>) (B. 36, 1063 C. 1903 [1] 1174; J. μ. [2] 70, 217 C. 1904 [2] 1460)
C<sub>8</sub>H<sub>8</sub>S
CallaN
C_3H_9P
C_3H_{10}N_2

J. pr. [2] 70, 217 C. 1904 [2] 1460).
*2) αγ-Diamidopropan. 2 HCl (B. 36, 334 C. 1903 [1] 702).
4) Propylhydrazin. HCl (J. pr. [2] 70, 280 C. 1904 [2] 1545).

                                                                3 III —
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C_3HOBr_5	*1) Pentabromaceton. Sm. 74° (R. 22, 288 C. 1903 [2] 108).
CaH,OBr4	*1) $\alpha \alpha \alpha \gamma$ -Tetrabrom- β -Ketopropan + 4H_2O . Sm. 62° (37–38° wasser-
	frei) (R. 22, 286 C. 1903 [2] 108).
$C_3H_3O_3Cl_4$	2) Chlormethylester d. Trichloressigsäure. Sd. 170° u. Zers. (C. r.
	136, 1566 C. 1903 [2] 342).
$C_3H_2O_3N_2$	*1) Parabansäure. Sm. 242—244° u. Zers. (A. 333, 115 C. 1904 [2] 893).
C_3H_8ON	3) Isoxazol. Sd. $95-95.5^{\circ}_{760}$. $+ \text{CdCl}_2$, $2 + \text{PtCl}_4$ (B. 36, 3665 \tilde{C} . 1903
	[2] 1312).
$C_3H_3O_2N$	*7) Acetylisocyansäure. Sd. 80-80,3° (B. 36, 3216 C. 1903 [2] 1055).
• •	8) Nitril d. Formoxylessigsäure. Sd. 172—173 ° (C. 1904 [2] 1377).
$C_3H_3O_3N_2$	1) Verbindung (aus Nitromalonsäureamid) = $(C_3H_3O_3N_2)x$. Ag $(M. 25,$
	121 C. 1904 [1] 1553).
$C_3H_3O_3N_3$	*5) Fulminursäure. Sm. 136—149° (Am. 29, 262 C. 1903 [1] 957).
	13) Nitril d. α-Nitro-β-Oximidopropionsäure. Sm. 143-144° (Am. 29,
	266 C. 1903 [1] 958).

*1) 1-Nitro-2,4-Diketotetrahydroimidazol. Sm. 170° (A. 327, 373 C. $C_3H_3O_4N_3$ 1903 [2] 660). *1) 4-Jodpyrazol. Sm. 108,5° (B. 37, 3522 C. 1904 [2] 1314). *5) Amid d. Cyanessigsäure. Sm. 123—124° (C. 1903 [2] 192). *8) 4-Oxypyrazol. HCl (A. 335, 109 C. 1904 [2] 1232). $C_3H_3N_2J$ CaHAON 10) Verbindung (aus Epinephrin). (HCl, JCl), (HCl, AuCl₈) (B. 37, 370 C. 1904 [1] 677). *4) αγ-Dichlor-β-Ketopropan. Sm. 42,5°; Sd. 172° (C. 1904 [1] 576).
2) Chlormethyläther d. αββ-Trichlor-α-Oxyäthan. Sd. 174—176° (A. 330, 129 C. 1904 [1] 1064).
*2) Hydantoïn. Sm. 217—220°. Na, K (Am. 28, 390 C. 1903 [1] 90; A. 327, 355, 369 C. 1903 [2] 660; A. 333, 109 C. 1904 [2] 893).
9) Chlormethylester d. Chloressigsäure. Sd. 155—160° (C. r. 136, 1565 C. 1002 [3] 40). C3H4OCl2 C,H,OCl C₈H₄O₉N₂ C,H,O,Cl, 1565 C. 1903 [2] 342). 1565 C. 1903 [2] 342).
6) isom. Dibrompropionsäure? Sm. 61°. (C. 1904 [2] 665).
1) Dithiolmalonsäure. Na₂ (C. r. 136, 556 C. 1903 [1] 816).
*3) Oxalursäure (H. 37, 225 C. 1903 [1] 593).
6) Verbindung (aus d. Amid d. Nitromalonsäure). Zers. bei 140—141° Ag, Ag₂ (M. 25, 84 C. 1904 [1] 1552).
7) isom. Verbindung (aus d. Amid d. Nitromalonsäure). Zers. bei 142—143°. Ag + H₂O (M. 25, 85 C. 1904 [1] 1552).
C 18,4 - H 2,0 - O 65,3 - N 14,3 - M. G. 196.
1) Dinitrat d. αβ-Dioxypropionsäure. Zers. bei 117° (C. r. 137, 573 C. 1903 [2] 1111).
3) 5-Methyl-1,2,3-Thiodiazol. Sd. 91°₃₈ (184°₇₅₅). + AuCl₃ (A. 325, 177 C. 1903 [1] 646; A. 333, 15 C. 1904 [2] 781).
6) Nitril d. Ureidoessigsäure. Sm. 130° (Am. 28, 391 C. 1903 [1] 90). $C_3H_4O_2Br_2$ $\mathbf{C_8H_4O_2S_2}$ $\mathbf{C}_{3}\mathbf{H}_{4}\mathbf{O}_{4}\mathbf{N}_{2}$ $C_9H_4O_8N_9$ CaHANaS 6) Nitril d. Ureidoessigsäure. Sm. 139° (4m. 28, 391° C. 1903 [1] 90). *1) $\alpha\alpha\alpha$ -Trichlor- β -Oxypropan. Sm. 50-51°; Sd. 161,8°,73 (C. r. 138, 205° C. 1904 [1] 636; D.R.P. 151545° C. 1904 [1] 1586). C3H5ON8 CaHaOCL 2) Chlormethyläther d. $\alpha\beta$ -Dichlor- α -Oxyäthan. Sd. 144–148° (A. 330, 128 C. 1904 [1] 1064). C₃H₅OBr. *5) Aldehyd d. β -Brompropionsäure. Sd. 40-45 $^{\circ}_{18}$ (A. 335, 263 C. 1904) [2] 1283). 7) Aldehyd d. r- α -Brompropionsäure. Sd. 42-44 $^{\circ}_{63}$ (A. 335, 264 C. 1904 [2] 1283). C_sH_sOJ 6) Aldehyd d. r-α-Jodpropionsäure. Sd. 40° (A. 335, 266 C. 1904 [2] 1283). *4) 2-Ketotetrahydrooxazol. Sm. 90°; Sd. 200°₂₁ (B. 36, 1281 C. 1903) CaH,OaN [1] 1215). CaH5ON 4) Aethylester d. Stickstoffkohlensäure. Fl. (P. Gutmann, Dissert. Heidelberg 1903). *1) α -Chlorpropionsäure. Sd. 185° (C. 1903 [2] 486). 9) γ -Chlor- β -Keto- α -Oxypropan. Sm. 74°. (C. 1904 [1] 576). *1) α -Jodpropionsäure. Sm. 44,5—45,5°. Mg + 4 $\frac{1}{12}$ H₂O, Li + H₂O, Ba, C₈H₅O₂Cl $C_9H_5O_9J$ Cu (B. 36, 4392 C. 1904 [1] 259). 9) Gem. Anhydrid d. Salpetrigensäure u. Propionsäure. Sd. 60° (G. 34 [1] 442 C. 1904 [2] 511). C₃H₅O₃N Methylester d. Oximidoessigsäure. Sm. 55°; Sd. 100°₁₅ (Bl. [3] 31, 678 C. 1904 [2] 195). *3) Amid d. Oxalursäure (B. 37, 2929 C. 1904 [2] 1241).
*4) Amid d. Oximidomalonsäure. Sm. 187—188° u. Zers. (175,5°) NH.,
K, Cu+H.O, Ag, Ag+2NH. (Soc. 83, 31 C. 1903 [1] 73, 441;
M. 25, 67, 75 C. 1904 [1] 1552).
5) Semicarbazonessigsäure. Sm. 240° u. Zers. (Bl. [3] 81, 682 C. 1904 C₃H₅O₃N₃ [2] 196). *1) Borsäureglycerinester (B. 36, 2222 C. 1903 [2] 420).
*2) Amidomalonsäure. K (A. 333, 80 C. 1904 [2] 827).
6) Methylester d. Nitroessigsäure. Sd. 107°₂₈ NH₄, K (A. 328, 247 C. 1903. [2] 1000; Bl. [3] 31, 853 C. 1904 [2] 641).
7) Nitrat d. γ-Oxy-αβ-Propanoxyd. Sd. 62—64°₁₅ (A. 335, 238 C. 1904 [2] 1004). $C_3H_5O_8B$ C3H5O4N [2] 1204). *2) Amid d. Nitromethandicarbonsäure. Ag (M. 25, 58 C. 1904 [1] $C_8H_5O_4N_8$ 1552; M. 25, 691 C. 1904 [2] 1110). *3) \(\beta\)-Nitro-\(\alpha\gamma\)-Dioximidopropan. Na2 (Am. 29, 260 C. 1903 [1] 957).

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$egin{array}{l} \mathbf{C_8}\mathbf{H_5}\mathbf{O_4}\mathbf{P} \\ \mathbf{C_8}\mathbf{H_5}\mathbf{O_5}\mathbf{N} \end{array}$	 Phosphat d. αβγ-Trioxypropan (C. r. 138, 49 C. 1904 [1] 431). Nitrat d. α-Oxypropionsäure. Fl. (C. r. 137, 1263 C. 1904 [1] 434).
	2) β-Nitro-α-Oxypropionsäure. Sm. 76—77°. Ca, Ba, Ag (Am. 32, 238 C. 1904 [2] 1141).
	3) Nitrat d. Oxyessigsäuremethylester. Sd. 165° u. Zers. (C. r. 137, 1263 C. 1904 [1] 434).
$\mathbf{C}_{3}\mathbf{H}_{5}\mathbf{NBr}_{2}$	*2) Aethylimidodibrommethan. Sm. 50—55°; Sd. 145-147° (Bl. [3] 31, 606 C. 1904 [2] 28).
$\mathbf{C_8H_5NS_2}$	*1) 2-Merkapto-4,5-Dihydrothiazol. Sm. 105—106° (C. 1904 [1] 431; B. 36, 1281 C. 1903 [1] 1215).
$egin{array}{l} \mathbf{C_8H_5Br_8S_2} \\ \mathbf{C_8H_5OCl_2} \end{array}$	 1) Verbindung (aus Bromathan) (C. 1903 [1] 19). *3) Chlormethyläther d. β-Chlor-α-Oxyäthan. Sd. 153-155°. + 2 Py-
081180012	ridin (A. 330, 126 C. 1904 [1] 1064). 4) Chlormethyläther d. α-Chlor-α-Oxyäthan. + 2 Pyridin (A. 330, 124
	C. 1904 [1] 1064).
C_8H_6OS $C_8H_6OS_2$	5) Thiolpropionsäure. Fl. (B. 36, 1009 C. 1903 [1] 1077). *1) Aethylxanthogensäure. Salze (Z. a. Ch. 41, 233 C. 1904 [2] 1107).
$C_3H_6O_2N_2$	*1) $\alpha\beta$ -Dioximidopropan. Sm. 150° (G. 34 [1] 207 C. 1904 [1] 1485).
	*6) Monomethylamid d, Oxaminsäure. Sm. 231—233° (Soc. 83, 20 C. 1903 [1] 448).
$egin{array}{c} \mathbf{C_3H_4O_2Cl_2} \ \mathbf{C_3H_4O_2S} \end{array}$	2) $\beta\beta$ -Dichlor- $\alpha\gamma$ -Dioxypropan (C. 1904 [1] 576). *1) α -Merkaptopropionsäure (C. 1903 [1] 15; H. 42, 351, 365 C. 1904
	[2] 979). *2) β-Merkaptopropionsäure (H. 42, 351 C. 1904 [2] 979).
$\mathbf{C_3H_6O_3N_2}$	*1) Propylnitrolsäure. Sm. 66° u. Zers. (G. 33 [1] 511 C. 1903 [2] 938).
	*8) Methylester d. Methylnitrosamidoameisensäure. Sd. 59—60. 150 (B. 36, 2478 C. 1903 [2] 559).
	13) Methylderivat d. Nitroessigsäureamid. Sm. 112° (M. 25, 730 C. 1904 [2] 1111).
$\mathbf{C_3H_6O_4N_9}$	*1) $\alpha \alpha$ -Dinitropropan. K. (J. pr. [2] 67, 138 C. 1903 [1] 865; G. 33 [1] 414 C. 1903 [2] 551).
~ ** • • •	*5) Malondihydroxamsäure. Sm. 160° (Soc. 81, 1572 C. 1903 [1] 158).
$\mathbf{C}_{3}\mathbf{H}_{6}\mathbf{O}_{5}\mathbf{N}_{2}$	C 24,0 — H 4,0 — O 53,3 — N 18,7 — M. G. 150. 1) Methyläther d. $\beta\beta$ -Dinitro- α -Oxyäthan. Sd. 84°, K. (B. 36, 436)
$\mathbf{C_3H_6NBr_8}$	 C. 1903 [1] 563). 2) Aethylimidodibrommethanhydrobromid (Bl. [3] 31, 608 C. 1904
$\mathbf{C}_{3}\mathbf{H}_{6}\mathbf{N}_{2}\mathbf{S}$	[2] 29). *1) Aethylenthioharnstoff. Sm. 194° (Ar. 240, 675 C. 1903 [1] 393).
$\mathbf{C}_{3}\mathbf{H}_{7}\mathbf{ON}$	*2) α_{-} A mido- β_{-} Ketopropan. HCl $(M, 25, 1074, C, 1904, [2], 1659).$
	*6) Formimidoäthyläther. (HCl, HgCl ₂) (Am. 31, 207 C. 1904 [1] 1064). *7) Amid d. Propionsäure. HBr (B. 36, 155 C. 1903 [1] 444). 14) Aldehyd d. α-Amidopropionsäure. HCl (B. 37, 615 C. 1904 [1] 925).
$C_8H_7ON_8$	4) Acetylguanidin. HCl, $(2 \text{HCl}, \text{PtCl}_4 + 2 \text{H}_2 \text{O})$, $(\text{HCl}, \text{AuCl}_3)$ $(Ar. 241,$
C_3H_7OC1	471 C. 1903 [2] 988). *1) β-Chlor-α-Oxypropan. Fl. (C. 1903 [2] 486).
-37	*3) α -Chlor- β -Oxypropan (C. 1903 [2] 486).
	*6) Chlormethyläther d. Oxyäthan. Sd. 82° (A. 330, 122 C. 1904 [1] 1064; A. 334, 62 C. 1904 [2] 949).
$\mathbf{C_3H_7O_2N}$	*5) β -Oximido- α -Oxypropan. Sm. 68—70°; Sd. 123—125° ₁₈ (A. 335, 259 C. 1904 [2] 1283).
	*15) Methylester d. Methylamidoameisensäure. Sd. 64-65° ₁₄ (B. 36, 2476 C. 1903 [2] 559).
	*16) Aethylester d. Amidoameisensäure. Sm. 49° (B. 36, 2475 C. 1903 [2] 559).
$\mathbf{C}_{3}\mathbf{H}_{7}\mathbf{O}_{2}\mathbf{\bar{N}}_{3}$	*3) Guanidinsäure (Glykocyamin). Zers. bei 250—260°. Pikrat (Am. 29, 491 C. 1903 [1] 1310).
	5) Methyläther d. α -Amidoformylimido- α -Amido- α -Oxymethan
	(O-Methylisobiuret). Sm. 118° (C. 1904 [2] 29). 6) Amid d. Ureïdoessigsäure. Sm. 204° u. Zers. (Am. 28, 391 C. 1903
$C_8H_7O_2J$	[1] 90). *1) γ -Jod- $\alpha\beta$ -Dioxypropan. Sd. 62° ₂₄ (A. 335, 235 C. 1904 [2] 1204).
$\mathbf{C}_{3}^{3}\mathbf{H}_{7}^{7}\mathbf{O}_{3}^{2}\mathbf{N}$	*7) β-Amido-α-Oxypropionsäure. Sm. 234—235° (241°). Cu + 3H ₂ O (C. 1903 [2] 343; B. 37, 337 C. 1904 [1] 647; B. 37, 343 C. 1904 [1]
	646; Am. 32, 240 C. 1904 [2] 1141; J. pr. [2] 70, 201 C. 1904 [1] 1459).

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*8) α-Amido-β-Oxypropionsäure (H. 39, 156 C. 1903 [2] 580).
*1) Allylphosphorsäure (C. r. 138, 762 C. 1904 [1] 1196).
C_3H_7O_3N
\mathbf{C}_{3}\mathbf{H}_{7}\mathbf{O}_{4}\mathbf{P}
                             *2) Aethylester d. Amidodithioameisensäure. Sm. 42° (C. r. 135, 975)
C3H7NS

    C. 1903 [1] 139).
    Dimethyläther d. Imidodimerkaptomethan. HJ (C. r. 135, 976)

C. 1903 [1] 139; Bl. [3] 29, 54 C. 1903 [1] 446).
*4) uns-Dimethylharnstoff. Sm. 182° (B. 36, 1197 C. 1903 [1] 1215).
12) α-Acetyl-α-Methylhydrazin. Sm. 98° (B. 36, 3189 C. 1903 [2] 939).

C3H8ON2
C3H8O2N2
                              *6) \alpha\beta-Diamidopropionsäure. HCl (B. 37, 342 C. 1904 [1] 646; H. 42,

*8) Aβ-Diamidopropionsaure. HCl (B. 51, 542 C. 1804 [1] 040, II. 42, 59 C. 1904 [2] 608).
*8) Aethylester d. Hydrazidoameisensäure. Sm. 45°; Sd. 92°<sub>13</sub> HCl (B. 36, 745 C. 1903 [1] 827; P. Gutmann, Dissert. Heidelberg 1903; J. pr. [2] 70, 276 C. 1904 [2] 1544).
3) Propan-a-Sulfinsäure. Mg + 2H<sub>2</sub>O (B. 37, 2153 C. 1904 [2] 186).
*2) Propan-aγ-Disulfonsäure. (NH<sub>4</sub>)<sub>2</sub>, Ag<sub>2</sub> (B. 37, 3808 C. 1904 [2] 1564).
*1) Propan-aβγ-Trisulfonsäure. (NH<sub>4</sub>)<sub>3</sub> + H<sub>2</sub>O, Ba<sub>3</sub> + 5H<sub>2</sub>O (Am. 32, 165 C. 1904 [2] 1044).

\begin{array}{c} \mathbf{C_3H_8O_2S} \\ \mathbf{C_3H_8O_6S_2} \\ \mathbf{C_3H_8O_9S_3} \end{array}
                                       165 C. 1904 [2] 944).
                              *7) Aethylpseudothioharnstoff. HBr (Soc. 83, 566 C. 1903 [1] 1123;
C3H8N8
                                       Am. 29, 483 C. 1903 [1] 1309).
                             *2) β-Methylamido-α-Oxyäthan. (HCl, AuCl<sub>3</sub>) (B. 36, 3082 C. 1903 [2] 955).
*1) Trimethylarsenoxyd (C. r. 139, 599 C. 1904 [2] 1451).
*2) Trimethylester d. Phosphorigensäure. PtCl<sub>2</sub> (Z. a. Ch. 37, 398
C3H9ON
C<sub>3</sub>H<sub>9</sub>OAs
C_3H_9O_3P
                                       C. 1904 [1] 157).
                                4) α-Oxyisopropylmetaphosphorige Säure. Sm. 52°. Pb (C. 1904 [2]
                                       1708).
                              *1) Trimethylester d. Borsäure. Sd. 650 (B. 36, 2221 C. 1903 [2] 420).
C<sub>3</sub>H<sub>9</sub>O<sub>3</sub>B
                              *5) \alpha-Oxyisopropylphosphinsäure. Na<sub>2</sub> + 4H<sub>2</sub>O (C. 1904 [2] 1708). 
*1) 1-Glycerinphosphorsäure (aus Lecithin). Ca + \frac{3}{4}H<sub>2</sub>O, Ba + \frac{1}{2}H<sub>2</sub>O (C. r. 138, 48 C. 1904 [1] 431; B. 37, 3754 C. 1904 [2] 1535).
C<sub>3</sub>H<sub>9</sub>O<sub>4</sub>P
C<sub>3</sub>H<sub>9</sub>O<sub>6</sub>P

    isom. Glycerinphosphorsäure (aus Glycerin u. Phosphorsäure).
    Ca + 1½, H2O, Ba + H2O (J. pr. [1] 36, 257; B. 37, 3757 C. 1904

                                      [2] 1535).
CaHaNaS
                              *2) \alpha-Amido-\alpha\beta-Dimethylthioharnstoff. Sm. 137—138° (B. 37, 2320 C.
                                      1904 [2] 311).
                             *1) Trimethylsulfinchlorid (J. pr. [2] 66, 453 C. 1903 [1] 561).
*1) Trimethylsulfinchlorid (J. pr. [2] 66, 453 C. 1903 [1] 561).
*1) Trimethylsulfintrijodid. Sm. 38° (C. 1904 [2] 415).
1) Trimethylselenintrijodid. Sm. 39° (C. 1904 [2] 415).
1) Trimethyltellurtrijodid. Sm. 76,5° (C. 1904 [2] 415).
*1) Zinntrimethyloxydhydrat (C. 1903 [2] 553).
1) Varhindung (aus Glycepin) Co (C. p. 136, 1457 (J. 1903 [2]
CaHaCIS
C_8H_9J_2As
C_3H_9J_3S
C_3H_9J_3Se

C_3H_9J_3Te
C_8H_{10}OSn
                                1) Verbindung (aus Glycerin). Ca (C. r. 136, 1457 C. 1903 [2] 281).
1) Carbonyldithiocarbimid (Soc. 83, 84 C. 1903 [1] 230, 447).
2) Phosphortrithiocyanat. Sd. 163 ° 15 (Soc. 85, 353 C. 1904 [1] 935, 1407).
C_8H_{10}O_7P_2

C_3ON_2S_2

C_8N_3S_3P
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- 3 IV -

$\mathbf{C_{3}H_{2}O_{2}N_{2}Cl_{2}}$	1) 5,5-Dichlor-2,4-Diketotetrahydroimidazol? Sm. 120—121° (A.
C ₃ H ₃ O ₃ N ₃ S	327, 380 C. 1903 [2] 661). 2) 1,2,3-Thiodiazol-4-Carbonsäure. Zers. bei 228° (4. 333, 11 C.
03-20-22-2	1904 [2] 780).
$\mathbf{C_3H_3OClBr_2}$	*1) Chlorid d. $\alpha\beta$ -Dibrompropionsäure. Sd. 71—73° ₁₂ (B. 37, 2508
C, H, O, N,S	Anm. C. 1904 [2] 427).
O ₃ H ₃ O ₂ N ₃ S	2) 6-Merkapto-2,4-Dioxy-1,3,5-Triazin $+ \frac{3}{4} + \frac{1}{4} \cdot 0$. (Thiocyanursäure). Zers. bei 316° (B. 36, 3196 C. 1903 [2] 956).
$\mathbf{C_3H_4ON_2Se}$	2) 2-Imido-4-Ketotetrahydroselenazol. (Selenhydantoïn.) Sm. 190°
	u. Zers. (Ar. 241, 193 C. 1903 [2] 103).
	3) Amid d. Selencyanessigsäure. Sm. 123—1240 (Ar. 241, 198 C.
	1903 [2] 103).
C.H.O.NCl	3) a-Chlor-a-Nitroso-A-Ketopropan Sm 1100 Sd 180-1850 n Zora

C₃H₄O₂NCl 3) α-Chlor-α-Nitroso-β-Ketopropan. Sm. 110°; Sd. 180—185° u. Zers. (C. 1903 [2] 486).

C₃H₄O₄NBr
 Methylester d. Bromnitroessigsäure. Sd. 103°₁₅. NH₄ (A. 328, 249 O. 1903 [2] 1000).

C₈H₄O₄N₃Br 1) Amid d. Bromnitromalonsäure. Sm. 131—132° (M. 25, 694 C. 1904 [2] 1110).

 $C_3H_5O_5N_2Br$ Chlormethylat d. 1, 2, 3-Thiodiazol. Sm. 192° u. Zers. 2 + PlCl₄, + AuCl₃ (A. 333, 21 C. 1904 [2] 781). C3H5N2CIS $C_8H_5N_2JS$ 1) Jodmethylat d. 1,2,3-Thiodiazol. Sm. 222° u. Zers. (A. 333, 20 C. 1904 [2] 781). Chloracetylguanidin. HCl, (2HCl, PtCl₄ + 2H₂O), (HCl, AuCl₃) (Ar. 241, 473 C. 1903 [2] 989).
 Methylester d. Thiopseudoallophansäure. HCl (Soc. 83, 567) CaHaONaCl $C_3H_6O_2N_2S$ C. 1903 [1] 1123). C3H6NClBr2 1) Aethylimidodibrommethanhydrochlorid (Bl. [3] 31, 608 C. 1904 [2] 29). C₃H₆NBr₂J 1) Aethylimidodibrommethanhydrojodid (Bl. [3] 31, 608 C. 1904 [2] 29). C₈H₈O₄ClP Verbindung (aus Glycerin). Ca (C. r. 136, 1458 C. 1903 [2] 281). C3H8NCl2P 1) Propylamidodichlorphosphin. Sd. 97% (A. 326, 150 C. 1903 C3ON3S3P *1) Phosphoryltrithiocyanat. Sd. 175° 21 (Soc. 85, 362 C. 1904 [1] 935, 1407). — 3 V — 1) Propylmonamid d. Phosphorsäuredichlorid. Sd. 146° 16 (A. 326, C₃H₈ONCl₂P 173 C. 1903 [1] 819). $C_8H_8NCl_2SP$ 1) Propylmonamid d. Thiophosphorsäure. Sd. 121° (A. 326, 203 C. 1903 [1] 821). C₄-Gruppe. C_4H_6 *2) uy-Butadiën (Erythren) (C. 1903 [2] 489). 7) Kohlenwasserstoff (aus $\alpha\beta\gamma\delta$ -Tetrabrombutan) (J. pr. [2] 67, 421 C. 1903 [1] 1296). $C_{4}H_{8}$ *4) Isobutylen (\dot{B} . 36, 1997 C. 1903 [2] 335). — 4 II — $C_4H_2O_4$ *1) Aethindicarbonsäure. Monopyridinsalz, Monochinolinsalz (C. r. 137, 1064 C. 1904 [1] 262). Rubidiumcarbidacetylen (C. r. 136, 1219 C. 1903 [2] 105).
 Cäsiumcarbidacetylen (C. r. 136, 1217 C. 1903 [2] 105).
 Lakton d. γ-Oxypropen-α-Carbonsäure. Sm. 4°; Sd. 95—96°₁₃ (C. $C_4H_2Rb_2$ $C_4H_2Ss_2$ C₄H₄O₂ *3) Hakton d. 7-0xypropen-a-caronsatre. Sm. 4, Sd. 33-35 13 (C. r. 138, 1051 C. 1904 [1] 1482).

*3) Tetronsäure. Na (B. 36, 471 C. 1903 [1] 627).

*5) Anhydrid d. Bernsteinsäure (Am. 31, 267 C. 1904 [1] 1078).

*1) Fumarsäure. Pyridinsalz, Chinolinsalz, Dichinaldinsalz (C. 1903 [2] 712; C. r. 137, 1064 C. 1904 [1] 262; B. 36, 4317 C. 1904 [1] 449). $C_4H_4O_3$ $C_4H_4O_4$ *2) Maleïnsäure (C. 1903 [2] 712). *1) Oxalessigsäure. Zers. bei 148-150°. Ag₂ (C. r. 137, 855 C. 1904 C,H,O, [1] 85; A. 331, 101 C. 1904 [1] 931).

*1) 1,2-Diazin. Sm. -8°; Sd. 205°₇₅₆. (2HCl, PtCl₄), 2 + PtCl₄, + AuCl₃, Pikrat (C. r. 136, 369 C. 1903 [1] 652). CAHAN2 *5) Nitril d. Propen-α-Carbonsäure (C. r. 137, 262 C. 1903 [2] 657).
2) 2-Amido-1,3-Diazin. Sm. 127—128°. HCl, Pikrat (B. 36, 2229 C. C_1H_5N C.H.N. 1903 [2] 448). 3) 4-Amido-1,3-Diazin. Sm. 150—152° (B. 36, 2232 C. 1903 [2] 448). *1) Methyläther d. γ -Oxypropin. 2 + 3(HgCl₂, HgO) (G. 33 [1] 317 C,HO C. 1903 [2] 281). *6) α-Crotonsäure. Brucinsalz, Chininsalz (Soc. 85, 347 C. 1904 [1] 1067, $C_4H_6O_2$ 1401; C. 1904 [2] 1206).
*7) β-Crotonsäure. Brucinsalz, Chininsalz (Soc. 85, 347 C. 1904 [1] 1067, 1401; C. 1904 [2] 1238).
*9) Metakrylsäure (B. 36, 1271 C. 1903 [1] 1219).

*11) R-Trimethylencarbonsäure (Soc. 83, 1378 C. 1904 [1] 162, 437).
*19) Propen-y-Carbonsäure. Sd. 167—169° (B. 36, 2897 C. 1903 [2] 825;

A. 314, 201 C. 1904 [2] 884).

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*8) \alpha-Ketopropan-\alpha-Carbonsäure. Ba + H<sub>2</sub>O (A. 331, 124 C. 1904 [1]
C4H8O3
                       932).
                 *13) Anhydrid d. Essigsäure (G. 33 [1] 77 C. 1903 [1] 1109).
                  26) Verbindung [aus dem Aethylester d. α-(4-D) mathetaridan hamblimida β-Ketopropan-α-Carbonsäure]. Sm. 88° (B. 36, ... 1903)
                  *1) Aethan-αα-Dicarbonsäure. Sm. 132° (C. 1903 [2] 1330; A. 325, 145
C_4H_6O_4
                  C. 1903 [1] 644; M. 24, 116 C. 1903 [1] 967).

*2) Bernstinaure (C. 1903 [2] 712; C. r. 135, 1352 C. 1903 [1] 320;
                        C. 1904 [1] 505).
                  *3) Acetoxylessigsäure. Sm. 66—68°; Sd. 144—145°<sub>12</sub> (B. 36, 466 C. 1903
                        [1] 626).

*4) Superoxyd d. Essigsäure (Am. 29, 182 C. 1903 [1] 959).
*4) β-Oxyäthan-αα-Dicarbonsäure. Ca, Cu (C. 1904 [2] 641).
*6) i-Aepfelsäure. Monochinolinsalz (G. 33 [2] 139 C. 1903 [2] 1315;

C_4H_6O_5
                        O. r. 137, 1064 C. 1904 [1] 262).
                  *7) i-Aepfelsäure (C. r. 135, 1352 C. 1903 [1] 320).
                  21) Bernsteinmonopersäure. Sm. 107° u. Zers. (Am. 32, 61 C. 1904 [2]
CAHOO
                   *1) d-Weinsäure (C. r. 135, 1352 C. 1903 [1] 320; A. 328, 152 C. 1903
                         [2] 987).
                   *3) Mesoweinsäure (B. 35, 4344 C. 1903 [1] 282).
                   *5) 5-Methylpyrazol (C. 1903 [2] 1323).
*8) 4- (oder 5-) Methylimidazol. Sm. 55° (Soc. 83, 464 C. 1903 [1] 931,
C_4H_6N_2
                        1143)
                        C 43,6 - H 5,4 - N 50,9 - M. G. 110.
 C_4H_6N_4
                     1) 2,4 Diamido-1,3-Diazin. Sm. 144-145° (2HCl, PtCl<sub>4</sub>) (B. 36, 2233)
                         O 1903 [2] 449).
                   2) 4,6-Diamido-1,3-Diazin. Sm. 267° (B. 36, 2231 C. 1903 [2] 448). *2) \alpha \delta-Dibrom-\beta-Buten. Sm. 51° (C. 1903 [2] 489).
 C_4H_6Br_2
                   *4) 2, 5-Dimethyl-1, 3, 4-Triazol. Sm. 141-142^{\circ}; Sd. 159^{\circ}_{10}. + AgNO<sub>3</sub> (J. pr. [2] 69, 153 C. 1904 [1] 1274).
 C4H7N8

    Bromderivat (aus dem Kohlenwasserstoff C<sub>4</sub>H<sub>6</sub>). Sd. 102—107° (J. pr. [2] 67, 421 C. 1903 [1] 1296).

 C_4H_7Br
                   *3) 1-Jodmethyl-R-Trimethylen. Sd. 134^{\circ}_{763} (C. 1903 [2] 489). 
*9) \beta-Methylpropan-\alpha\beta-Oxyd (B. 36, 2018 C. 1903 [2] 338).
 C_4H_7J
 C'H8O
                  *10) \( \beta\)-Ketobutan (C. r. 137, 576 C. 1903 [2] 1110; \( \bar{M}\). 25, 336 C. 1904
                  [1] 1400).
*12) Aldehyd d. Buttersäure (B. 37, 188 C. 1904 [1] 638)
                  *13) Aldehyd d. Isobuttersäure (C. r. 138, 91 C. 1904 [1] 505; M. 25,
                         188 C. 1904 [1] 1000).

17) Methyläther d. α-Oxy-β-Ketopropan. Sd. 112-114° (G. 33 [1] 317 C. 1903 [2] 281; G. 1904 [2] 302).
18) Methyläther d. γ-Oxypropan-αβ-Oxyd. Sd. 115-116° (C. 1904)

 C4HSO2
                         [2] 303).
                    *2) Methylenäther d. \alpha\beta\gamma-Trioxypropan. Sd. 90-91^{\circ}_{18} (A. 335, 215
 C_4H_8O_3
                         C. 1904 [2] 1202).

*6) i-β-Oxybuttersäure (H. 87, 355 C. 1903 [1] 738).
*2) i-αβ-Dioxybuttersäure. Ba + 2 H<sub>2</sub>O, Brucinsalz, Chininglius (Soc. 85, 199 C. 1904 [1] 933).

 C_4H_8O_4
                  *12) d-Erythrulose (C. 1904 [2] 1291).
                  *14) d-a \beta-Dioxybutters\u00e4ure. Ba (Soc. 85, 202 C. 1904 [1] 934).
17) l-a \beta-Dioxybutters\u00e4ure. Sm. 74—75°. Ba (Soc. 85, 201 C. 1904 [1]
                         788, 934).
 C_4H_8O_5
                    *4) d-Érythronsäure (H. 37, 424 C. 1903 [1] 1147).
                   *2) 5-Methyl-4,5-Dihydropyrazol (M. 24, 443 C. 1903 [2] 617).
*6) Nitril d. Dimethylamidoessigsäure. Sd. 139° (C. 1904 [2] 945, 1377).
Nitril d. Aethylamidoessigsäure. Sd. 166—167° (B. 37, 4092 C. 1904 [2] 1725).
 C_4H_8N_2
 C_4H_9N
                     9) Aethylimidoäthan. Sd. 48° (C. 1904 [2] 945).
 C4H9Cl
                    *4) \beta-Chlor-\beta-Methylpropan (C. 1904 [2] 691).
                    *3) Isobutylbromid (B. 36, 1989 C. 1903 [2] 334).
*4) \( \beta\)-Brom-\beta\-Methylpropan. Sm. 72\( \cdot\) (B. 36, 1988 C. 1903 [2] 334; \( C. 1904 [1] \) 1065).
 C,H,Br
 C<sub>4</sub>H<sub>9</sub>J
                    *4) \beta-Jod-\beta-Methylpropan (C. 1904 [2] 691).
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*1) \alpha-Oxybutan (C. r. 136, 1261 C. 1903 [2] 105),
*2) \beta-Oxybutan (C. r. 137, 302 C. 1903 [2] 708).
*3) Isobutylalkohol (C. r. 137, 302 C. 1903 [2] 708).
C4H10O
                           *4) Trimethylcarbinol. Sm. 25,45°; Sd. 82,8°,781 (C. r. 136, 1035 C. 1903
                          [1] 1296).

*6) Diäthyläther. + 5HCl, + HBr, + HJ, + AlCl<sub>3</sub> (Soc. 85, 925 C. 1904 [2] 585; Soc. 85, 1106 C. 1904 [2] 976).

8) Methyläther d. β-Oxypropan. Sd. 32,5°<sub>777</sub> (C. 1904 [1] 1065).

*2) αη-Dioxybutan (M. 25, 1 C. 1904 [1] 715; M. 25, 332 C. 1904 [1] 1400).

7) Dimethyläther d. Di[Oxymethyl]äther. Sd. 106—108° (C. r. 138, 1705 C. 1904 [2] 416).

*3) d-Erythrit. Sm. 88,5—89° (C. 1904 [2] 1291).

*6) Diäthylsulfid (G. 33 [1] 77 C. 1903 [1] 1109).

*1) α-Amidobutan. (2HCl, SnCl<sub>4</sub>), (2HCl, PtCl<sub>4</sub>) (C. 1904 [1] 923).

*4) tert. Butylamin (B. 36, 685 C. 1903 [1] 817).

*6) Diäthylamin. (HCl + HgCl<sub>2</sub> + H<sub>2</sub>O), (2HCl, SnCl<sub>4</sub>), (2HCl, PtCl<sub>4</sub>) (J. pr. [2] 66, 469 C. 1903 [1] 561; C. 1904 [1] 923).

*8) d-β-Amidobutan. Sd. 63°. HCl, Bitartrat (B. 36, 583 C. 1903 [1] 695; Ar. 242, 48 C. 1904 [1] 997; Ar. 242, 53 C. 1904 [1] 997).

11) 1-β-Amidobutan. Sd. 63°. HCl, Bitartrat (B. 36, 583 C. 1903 [1] 695).

12) Base (aus Spilanthol). HCl, (2HCl, PtCl<sub>4</sub>), (HCl, AuCl<sub>8</sub>) (Ar. 241, 283 C. 1903 [2] 452).
                                     [1] 1296).
C_4H_{10}O_2
C4H10O3
C4H10O4
C_4H_{10}S
C_4H_{11}N
                                   C. 1903 [2] 452).
                          *6. 1904 [2] 42...
*6. αγ-Diamidobutan. Sd. 147—150°, 2 HCl (B. 36, 1924 C. 1903 [2] 209).
*1) Kohlenoxydnickel (C. 1903 [1] 1250; Ph. Ch. 46, 37 C. 1904 [1] 361; Soc. 85, 203 C. 1904 [1] 632, 919; D.R.P. 149559 C. 1904 [1] 1048; C. 1904 [2] 1111).
\mathbf{C_4H_{12}N_2}
C<sub>4</sub>O<sub>4</sub>Ni
                                                                             — 4 III —
                          *1) 2,4,6-Trichlor-1,3-Diazin. Sd. 213° (B. 37, 3657 C. 1904 [2] 1416). 
*2) Verbindung (aus Acetylen). Sm. 108° (G. 33 [2] 321 C. 1904 [1] 255). 
C 19,5 — H 0,8 — O 45,5 — N 34,1 — M. G. 246.
\mathbf{C_4HN_2Cl_3}
C_4H_2O_3N_4
C4H2O7N6
                             1) Verbindung (aus Acetylen). Sm. 780 u. Zers. (G. 33 [2] 320 C. 1904
                                  [1] 255).
                            1) 2,3,5-Trichlorpyrrol. Fl. (G. 34 [1] 256 C. 1904 [1] 120; G. 34 [1]
C4H2NCl3
                                  414 C. 1904 [2] 452).
C 52,7 — H 3,3 — O 17,6 — N 26,4 — M. G. 109.
CAHON,
                             1) Cyanamid d. Cyanessigsäure. Sm. 93° u. Zers. (D.R.P. 151597

C. 1904 [2] 69).
3) Imid d. Maleïnsäure. Sm. 93° (C. 1904 [2] 305).
*2) Verbindung (aus Acetylen). Sm. 149° (G. 33 [2] 323 C. 1904 [1] 256).
3) Formaltrichlormilehsäure. Sm. 32°; Sd. 162° 15 (R. 21, 317 C. 1903).

C_4H_8O_2N
C_4H_8O_8N
C<sub>4</sub>H<sub>8</sub>O<sub>8</sub>Cl<sub>3</sub>
                                  [1] 137).
                          *7) 1,2,3-Triazol-4,5-Dicarbonsäure + 2H<sub>2</sub>O. Sm. 201° u. Zers. (A. 325,
C_4H_8O_4N_8
                                  154 C. 1903 [1] 644).
                          *1) Bromfumarsäure. Monopyridinsalz (C. r. 137, 1065 C. 1904 [1] 262).
*2) 1-Oxy-1,2,3-Triazol-4,5-Dicarbonsäure. Sm. 91—92°. K + H<sub>2</sub>O
C_4H_3O_4Br
C4H3O5N3
                                  (A. 325, 165 C. 1903 [1] 645).
                            1) Dimethyläther d. Methylimidodimerkaptomethan (C. r. 136, 452
C_4H_8NS_2
                                  C. 1903 [1] 699).
                            1) 4,6-Dichlor-2-Amido-1,3-Diazin. Sm. 221° (B. 36, 2228 C. 1903
C4H3N3Cl2
                                  [2] 448).
                            2) 2, 6-Dichlor-4-Amido-1, 3-Diazin. Sm. 270-271° (B. 36, 2228 C.
                                  1903 [2] 448).
                       *10) Uracil. Sm. 338° (H. 37, 527 C. 1903 [1] 1218; Am. 29, 485 C. 1903
C_4H_4O_2N_2
                                  [1] 1309).
                          12) 3-Nitropyrrol (C. 1902 [2] 704; 1903 [2] 121).
                            2) Nitril d. \alpha-Oximido-\beta-Nitrosimidopropionsäure. NH_4 (B. 37, 3469 C. 1904 [2] 1305).
C_4H_4O_2N_4
                          11) Methyläther d. 2-Oxy-4,5-Diketo-4,5-Dihydroimidazol (Methylparabansäure). Sm. 137,5°. (2HCl, PtCl<sub>3</sub>) (C. 1904 [2] 30).
4) 4-Nitramido-2-Keto-1,2-Dihydro-1,3-Diazin. Zers. oberh. 300° (Am.
C_4H_4O_8N_2
C_4H_4O_3N_4
                                  31, 605 C. 1904 [2] 243).
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*8) Diamid d. 1,2,3,6-Dioxdiazin-4,5-Dicarbonsaure. Sm. 2530 (Bl [3]

27, 1166 C. 1903 [1] 228).

 $C_4H_4O_4N_4$

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*1) αβ-Dibrombernsteinsäure. Monopyridinsalz, Dichinolinsalz, Monochinaldinsalz (C. r. 137, 1064 C. 1904 [1] 262).
*1) Alloxansäure. K + 3 H<sub>2</sub>O (A. 333, 89 C. 1904 [2] 828).
5) α-Amid d. α-Nitroäthen-αβ-Dicarbonsäure (α-A. d. Nitromaleïnsäure). NH<sub>4</sub>, K, Na, Ag (Am. 32, 235 C. 1904 [2] 1141).
*1) Dinitroweinsäure (Soc. 83, 155 C. 1903 [1] 627).
*2) Nitrologia (Soc. 83, 155 C. 1904 [2] 140 (14 84 ft).

   C_4H_4O_4Br_9
   C_4H_4O_5N_2
   C_4H_4O_{10}N_2

    1) Dillatowellisative (302. 33, 155 c. 1505 [1] 527.
    2) Nitril d. γ-Brompropen-α-Carbonsäure. Sm. -14°; Sd. 84 °<sub>12</sub> (C. r. 138, 1051 C. 1904 [1] 1481).
    1) 2,4,6-Trimerkapto-1,3-Diazin (B. 36, 2234 C. 1903 [2] 449).
    1) 4-Chlor-2-Amido-1,3-Diazin. Zers. bei 168°. (2HCl, PtCl<sub>4</sub>) (B. 36, 2202 C. 2012 [2] 140.

   C.H.NBr
   CAHAN,S
   C<sub>4</sub>H<sub>4</sub>N,Ĉi
                                      3383 C. 1903 [2] 1193).
   CAHAN,J
                                1) 6-Jod-4-Amido-1, 3-Diazin. Sm. 211-2120 (B. 36, 2231 C. 1903 2
                               448).

2) 4-Amido-2-Keto-1, 2-Dihydro-1, 3-Diazin + H<sub>2</sub>O (Cytosin). Zers. bei 320—325°. 2HCl, (2HCl, PtCl<sub>4</sub>), HNO<sub>3</sub>, H<sub>2</sub>SO<sub>4</sub>, Pikrat (B. 27, 2219; H. 37, 377 C. 1903 [1] 725; Am. 29, 498 C. 1903 [1] 1311; Am. 29, 505 C. 1903 [1] 1311; H. 38, 49 C. 1903 [1] 1364; H. 38, 80 C. 1903 [1] 1366; H. 38, 170 C. 1903 [1] 1417; H. 39, 7 C. 1903 [2] 449; Am. 31, 598 C. 1904 [2] 242). — IV, 1623.

3) 2-Amido-4-Oxy-1, 3-Diazin (2-Amido-4-Keto-3, 4-Dihydro-1, 3-Diazin). Sm. 276° u. Zers. (2HCl, PtCl<sub>4</sub>), (HCl, AuCl<sub>3</sub>), Pikrat (Am. 29, 501 C. 1903 [1] 1311; B. 36, 3382 C. 1903 [2] 1193).

4) Base + H<sub>2</sub>O (aus Störtestikeln). (2HCl, PtCl<sub>4</sub>) (H. 37, 178 C. 1903 [1] 240).
   C,H,ON,
                                     [1] 240).
                            [1] 240).
6) Aldehyd d. γγγ-Trichlorbuttersäure (C. 1904 [1] 480).
*7) Succinimid. Sm. 125°. Salze siehe (Ph. Ch. 42, 703 C. 1903 [1] 75%;
J. pr. [2] 69, 17 C. 1904 [1] 640; B. 37, 1479 C. 1904 [1] 1331).
*8) Nitril d. Acetoxylessigsäure. Sd. 179—180°, 55 (C. 1904 [2] 1377).
*3) 4-Oximido-5-Keto-3-Methyl-4,5-Dihydropyrazol + H<sub>3</sub>O. Sm. 230°
u. Zers. (232°). Ag, Methylpyrazolonsalz (A. 328, 66 C. 1903 [2] 249;
G. 34 [1] 210 C. 1904 [1] 1486; G. 34 [1] 180 C. 1904 [1] 1332; B.
37, 2832 C. 1904 [2] 642; P. Guttmann, Dissert., Heidelberg 1903).
13) 5-Oxy-4-Acetyl-1,2,3-Triazol. Sm. 128—129° u. Zers. (A. 325, 154)
  C4H5OCL
  \mathbf{C}_{\mathbf{A}}^{\mathbf{T}}\mathbf{H}_{\mathbf{A}}^{\mathbf{G}}\mathbf{O}_{\mathbf{A}}\mathbf{N}
  C4H5O9N3
                                     C. 1903 [1] 644).
                            14) 5-Methyl-1,2,3-Triazol-4-Carbonsäure + H<sub>2</sub>O. Sm. 235° u. Zers. (A. 325, 153 C. 1903 [1] 644).
                            *2) 5-Amido-2,4,6-Triketohexahydro-1,3-Diazin. K, K_2 + 2H_2O, Na.
 C4H5O8N8
                              Ba (4. 333, 71 C. 1904 [2] 826).
6) 4-Nitro-5-Keto-3-Methyl-4,5-Dihydropyrazol. Sm. 276° (G. 34 [1]
                                    186 C. 1904 [1] 1332)
                              7) 1-Oxy-4,5-Dihydro-1,2,3-Triazol-4-Methylencarbonsäure. Sm. 184
                              bis 185°. Ba + H<sub>2</sub>O (B. 36, 4256 C. 1904 [1] 359).
8) 1-Oxy-5-Methyl-1,2,3-Triazol-4-Carbonsäure + H<sub>2</sub>O. Zers. bei 205°.
                                    Ag<sub>2</sub> (A. 325, 164 C. 1903 [1] 645).
                           *2) Chlorid d. Oxalsäuremonoäthylester. Sd. 133—135% (B. 37, 3678
 C4H5O8Cl
                                    C. 1904 [2] 1495).
                             3) Chlorid d. Acetoxylessigsäure. Sd. 147—160° u. Zers. (54°14) (B. 36,
                           467 C. 1903 [1] 626).
*1) 1-Nitro-2,4-Diketo-3-Methyltetrahydroimidazol. Sm. 168° (A. 327,
C_4H_5O_4N_8
                                   377 C. 1903 [2] 661).
                          7) Säure (aus Uramil). K + ½H<sub>2</sub>O (4. 383 88 C. 1904 [2] 828).
*2) i-Brombernsteinsäure. Dichinaldinsalz (C. r. 137, 1064 C. 1904 [1] 262; B. 37, 2598 C. 1904 [2] 421).
C4H5O4Br
                            5) Amidooxybernsteinsäure. Sm. 320° (B. 37, 1596 C. 1904 [1] 1449.
C_4H_5O_5N
                            6) Oximidomalonmethyläthersäure. Sm. 90-91°. Ag<sub>2</sub> + \frac{1}{2}H<sub>2</sub>O (M.
                                  25, 110 C. 1904 [1] 1553).
C_4H_5O_5N_8

    Säure (aus Nitroessigsäureamid). Sm. 101° u. Zers. Ag (M. 25, 735
    C. 1904 [2] 1111).

                          *1) Bromäpfelsäure. Monochinaldinsalz (C. r. 137, 1065 C. 1904 [1] 262).
C_4H_5O_5Br
                                  C 26,8 — H 2,8 — O 62,6 — N 7,8 — M. G. 179.
C4H5O7N
                            1) \beta-Nitro-\alpha-Oxyäthan-\alpha\beta-Dicarbonsäure (Nitroäpfelsäure). Ba<sub>g</sub> (Am.
                                  32, 237 C. 1904 [2] 1141).
                            2) Nitrat d. Oxyacetoxylessigsäure. Fl. (Bl. [3] 29, 678 C. 1903
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 $C_4H_5O_7N$ 3) Nitrat d. Aepfelsäure. Sm. 115° u. Zers. (Bl. [3] 29. 679 C. 1903 [2] 488). CAHON, 0.23.2 - H 2.4 - 0.54.1 - N 20.3 - M. G. 207.1) Verbindung $+ \sqrt[3]{4}$ H₂O (aus Nitroessigsäureamid) (M. 25, 717 O. 1904 2) Nitril d. β_{γ} -Dibrombuttersäure. Sd. 124—126°₃ (C. r. 136, 1265 C. 1903 [2] 106; C. r. 137, 262 C. 1903 [2] 657). *2) Chrysean (B. 36, 3546 C. 1903 [2] 1378). C.H.NBr. CAHINS CAH, NACI 1) 6-Chlor-2,4-Diamido-1,4-Diazin. Sm. 1980 (B. 36, 2232 C. 1903 C,H,N,J 1) 6-Jod-2,4-Diamido-1,3-Diazin. Sm. 187-188° (B. 36, 2233 C. 1903 [2] 449). C.H.ON. [*8] Amid d. α-Cyanpropionsäure. Sm. 105° (105—106°; 81°P) (C. 1903 [2] 192, 713). *14) 2,5-Dimethyl-1,3,4-Oxdiazol. Sd. 178-179° (J. pr. [2] 69, 150 C. 1904 [1] 1274). *1) 4-Imido-2-Kéto-6-Methyl-1, 2, 3, 4-Tetrahydro-1, 3, 5-Triazin. Pikrat C4H4ON4 (G. 34 [2] 76 C. 1904 [2] 716). 8) Diamidooxy-I, 3-Diazin (H. 38, 176 C. 1903 [1] 1417). 9) 4,6-Diamido-2-Keto-I, 2-Dihydro-I, 3-Diazin. Sm. noch nicht bei 347°. 2HCl, Pikrat (Am. 32, 349 C. 1904 [2] 1414). *2) Aethyläther d. $\beta\beta$ -Dichlor- α -Oxyäthen. Sd. 144—146° (C. 1903 [1] 13; G. 33 [2] 383 C. 1904 [1] 921). C.H.OCI. *3) 2,4-Diketo-3-Methyltetrahydroimidazol. Sm. 181—182°. Ag (A. 333, 113 C. 1904 [2] 893).
*4) Laktylharnstoff. Sm. 148° (145°) (Am. 28, 394 C. 1903 [1] 90; A. C4H6O2N2 **327**, 383 *C.* **1903** [2] 661). *6) Glycinanhydrid. Ag. (B. 37, 1289 C. 1904 [1] 1336; B. 37, 2501 C. 1904 [2] 426). *9) Methylester d. α-Diazopropionsäure. Sd. 43-45 1, (B. 37, 1270 C. 1904 [1] 1334). 20) 2-Oxy-5-Keto-1-Methyl-4,5-Dihydroimidazol. Sm. 1710 (A. 327, 375 O. 1903 [2] 661). 8) 5,6-Diamido-2,4-Diketo-1,2,3,4-Tetrahydro-1,3-Diazin. H₂SO₄ + 1¹/₂H₂O (D.R.P. 144761 *C.* 1903 [2] 859). 9) 1-Amido-5-Methyl-1,2,3-Triazol-4-Carbonsäure. Sm. 190° u. Zers. $C_4H_6O_2N_4$ 9) I-Amido-5-Methyl-1, 2, 5-Triazol-4-Carbonsaure. Sm. 180-4. Zers. (B. 36, 3616 C. 1903 [2] 1381). $C_4H_6O_2Cl_2$ *12) $\beta\gamma$ -Dichlorbuttersäure (C. r. 188, 1051 C. 1904 [1] 1482). $C_4H_6O_2Br_2$ *14) $\beta\gamma$ -Dibrombuttersäure. Sm. 49-50° (C. r. 136, 1266 C. 1903 [2] 106; C. r. 138, 1051 C. 1904 [1] 1482). $C_4H_6O_2F_2$ 1) Aethylester d. Difluoressigsäure. Sd. 99,2° (C. 1903 [2] 710). 2) $\beta\beta$ -Difluoräthylester d. Essigsäure. Sd. 106° (C. 1903 [1] 437). *1) Allantoin (5-Ureïdo-2,4-Diketotetrahydroimidazol). Sm. 230-2326. $C_4H_6O_8N_4$ (C. r. 138, 426 C. 1904 [1] 792; H. 41, 342 C. 1904 [1] 1338; A. 333, 133 C. 1904 [2] 895). Sm. 177-178° (A. 327, 263 C. 1903 [2] 349; *5) Methyloxalursäure. $C_4H_6O_4N_2$ 7) Methyloxaltrisaure. Sm. $177-178^{\circ}$ (A. 327, 205 C. 1903 [2] 549; A. 333, 126 C. 1904 [2] 894). 7) Methylderivat d. α -Verb. $C_{8}H_{4}O_{4}N_{2}$ (M. 25, 101 C. 1904 [1] 1553). 8) Methylderivat d. β -Verb. $C_{8}H_{4}O_{4}N_{2}$ (M. 25, 102 C. 1904 [1] 1553). 9) Monoamid d. Oximidomalonmethyläthersäure. Sm. $137-138^{\circ}$ u. Zers. Ag (M. 25, 107 C. 1904 [1] 1553). *4) Aethylester d. Oximidonitroessigsäure. Sm. 61° u. Zers. [Bl. [3] $C_4H_6O_5N_2$ **31**, 679 *C.* **1904** [2] 195). 5) Ureïdomalonsăure. Sm. 148—150° u. Zers. $(NH_4)_2 + H_2O$, Ba + H_2O , Pb + H_2O (A. 333, 80 C. 1904 [2] 827). C 27,0 - H 3,4 - O 53,9 - N 15,7 - M. G. 178. C.H.O.N. 1) Aethylester d. Dinitroessigsäure. Fl (C. r. 136, 159 C. 1903 [1] 1) Gem. Anhydrid d. Essigsäure u. Chromsäure (B. 36, 2218 C. 1903 C4H6O6Cr [2] 420). *1) Nitril d. γ-Brombuttersäure. Sd. 91°, (Am. 30, 161 C. 1903 C4H8NBr

*9) 2,5-Dimethyl-1,3,4-Thiodiazol. Sm. 64°; Sd. 202-203° (J. pr. [2]

[2] 712).

69, 152 C. 1904 [1] 1274).

 $C_4H_6N_2S$

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C_4H_6N_2S_2
                              1) Dimethyläther d. \alpha-Cyanimido-\alpha\alpha-Dimerkaptomethan. Sm. 57°
                                   (A. 331, 285 C. 1904 [2] 31).
                              5) Dimethyläther d. 3,5-Dimerkapto-1,2,4-Thiodiazol (Dimethylper-
    C_4H_6N_2S_3
                              sulfocyanat). Sm. 42°; Sd. 279° (A. 331, 292 C. 1904 [2] 32).
2) 2,5-Dimethyl-1,3,4-Selendiazol. Sm. 77°. + AgNO<sub>3</sub> (J. pr. [2] 69,
    C_4H_6N_3Se
                                   509 C. 1904 [2] 601).
                              2) 4,6-Diamido-2-Merkapto-1,3-Diazin +1^{1}/_{2}H_{2}O. Sm. noch nicht bei
    C_4H_6N_4S
                                   280° (A. 331, 80 C. 1904 [1] 1200).
                            *5) Nitril d. α-Oxyisobuttersaure (D.R.P. 141509 C. 1903 [1] 1244).
   C4H7ON
   C4H7ON8
                             8) Amid d. 4,5-Dihydropyrazol-1-Carbonsäure. Sm. 171° (A. 335, 211
                                    C. 1904 [2] 1202)
                           *2) \alpha\alpha\alpha-Trichlor-\beta-Oxy-\beta-Methylpropan + ½, H<sub>2</sub>O (C. 1904 [1] 1643). *4) Aethyläther d. \alpha\beta\beta-Trichlor-\alpha-Oxyäthan. S. 170—175° (G. 33 [2]
   C4H7OCl8
                                   376 C. 1904 [1] 921).
   C_4H_7OBr_8
                            *2) \alpha\alpha\alpha-Tribrom-\beta-Oxy-\beta-Methylpropan + \frac{1}{2}H<sub>2</sub>O (C. 1904 [1] 1643). 
*2) \gamma-Oximido-\beta-Ketobutan. Sd. 83°<sub>8</sub> (Bl. [3] 31, 1165 C. 1904 [2] 1700).
   C,H,O,N
   C4H7O2N8
                             9) 3,5-Dioxy-6-Methyl-1,6-Dihydro-1,2,4-Triazin. Na (Am. 28, 398
                                   C. 1903 [1] 90).
                           *8) Aethylester d. Bromessigsäure. Sd. 158,20760 (B. 36, 291 C. 1903
   C4H7O2Br
                                   [1] 581).
   C_4H_7O_8N
                           *1) a-Oximidobuttersäure. Sm. 169-170° u. Zers. (Bl. [3] 31, 1071
                                   C. 1904 [2] 1457).
                           *3) Methylester d. \alpha-Oximidopropionsäure. Sm. 68-69°; Sd. 122-123°<sub>14</sub>
                                  (Bl. [3] 31, 1070 C. 1904 [2] 1457).
                           *4) Aethylester d. Oximidoessigsäure. Sm. 35°; Sd. 110—115°<sub>15</sub> (Bl. [3]
                                   31, 675 C. 1904 [2] 195).
                           15) Amid d. Acetoxylessigsäure. Sm. 93-95° (B. 36, 468 C. 1903 [1] (626).
  \mathbf{C_4H_7O_8N_8}
                             4) Amid d. Oximidomalonmethyläthersäure. Sm. 143-144,5 ° (M. 25,
                                  72, 80 C. 1904 [1] 1552).
  C_4H_7O_4N
                           *4) 1-Asparaginsäure (H. 38, 114 C. 1903 [1] 1423; H. 42, 207 C. 1904
                                  [2] 961; Ph. Ch. 47, 615 C. 1904 [1] 1254).
                           *9) Aethylester d. Nitroessigsäure. Sd. 95—98°12. K (Bl. [3] 31, 850
                                  C. 1904 [2] 640).
                            3) \alpha-Nitro-\alpha-Nitroso-\beta-Semicarbazon
propan. Sm. 163-164^{\circ} (C. 1903
  C4H7O4N5
                                  [2] 1432).
                            1) Phosphit d. Erythran. Sm. 117° (C. r. 136, 1068 C. 1903 [1] 1297).
 C_4H_7O_4P
                            5) α-Nitro-β-Oxybuttersäure. Sm. 119—121° (C. 1903 [2] 554).
6) Amidooxybernsteinsäure. Cu + 4H<sub>2</sub>O (H. 42, 285 C. 1904 [2] 958).
 C4H7ON

7) Nitrat d. α-Oxybuttersäure. Sm. 45° (C. r. 137, 1263 C. 1904 [1] 434).
8) Nitrat d. β-Oxybuttersäure. Fl. (Bl. [3] 31, 245 C. 1904 [1] 1067).
9) Nitrat d. α-Oxyisobuttersäure. Sm. 78° (Bl. [3] 31, 246 C. 1904

                                  [1] 1067).

    Di[ββ-Diffuoräthyl]amin. Sd. 124,4%, HCl, H<sub>2</sub>SO<sub>4</sub>, Oxalat (C. 1904)

 C4H7NF4
                                 [2] 945).
                            2) 4, 5, 6-Triamido-2-Merkapto-1, 3-Diazin + \frac{1}{2}H<sub>2</sub>O (A. 331, 82)
 C4H7N5
                         *4) C. 1904 [1] 1200).
                                                                   7
                         *4) Voching 2 (1) uncellabed u. H<sub>2</sub>S). Sm. 61° (C. 1904 [2] 21).
*1) -A ::: "religion of the control of the co
 C4H8OS
 C_4H_8O_2N_2
                       *15) s-Dimethylamid d. Oxalsäure. Sm. 209—210° (210—212°) (A. 327, 262 C. 1903 [2] 349; B. 37, 2200 C. 1904 [2] 323).
*20) s-Diacetylhydrazin. Sm. 138°; Sd. 209°<sub>15</sub>. Cu (J. pr. [2] 69, 145
                                 C. 1904 [1] 1274).

    25) Methyläther d. α-Amido-α-Acetylimido-α-Oxymethan (O-Methylacetylisoharnstoff). Sm. 58,5°. Ag (C. 1904 [1] 1560).
    26) Propionylharnstoff. Sm. 209° (D.R.P. 147278 C. 1904 [1] 68).

C_4H_8O_2N_4
                         10) α-Oximido-β-Semicarbazonpropan. Sm. 219-220° (C. 1903 [2] 1432).
                         *2) Monoäthyläthor d. ββ-Dichlor-αα-Dioxyäthan. Sd. 109—111° (G. 33 [2] 402 C. 1904 [1] 922).
C4H8O2Cl
                          3) Dimethyläther d. \beta\beta-Dichlor-\alpha\alpha-Dioxyäthan. Sd. 166—168° (G. 33 [2] 415 C. 1904 [1] 922).
                        *8) Aethylester d. Methylnitrosamidoameisensäure.
C4H8O3N2
                                                                                                                                        Sd. 65-65,5°
                               (B. 36, 2478 C. 1903 [2] 559; B. 36, 3636 C. 1903 [2] 1331; B. 36, 4295 C. 1904 [1] 507).
                        *9) Aethylester d. Allophansäure. Sm. 1920 (B. 36, 743 C. 1903 [1] 827).
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C_4H_8O_3N_2 *11) \alpha-Amid d. \alpha-Amidoäthan-\alpha\beta-Dicarbonsäure (G. 34 [2] 44 C. 1904
                     [2] 825).
               *12) d-Asparagin (G. 34 [2] 36 C. 1904 [2] 825).
               *13) 1-Asparagin (Ph. Ch. 47, 611 C. 1904 [1] 1254; G. 34 [2] 36 C. 1904
                      21 825).
               *20) Diamid d. l-\alpha-Oxyäthan-\alpha\beta-Dicarbonsäure. Sm. 157° (Soc. 83, 1325)
                     C. 1904 [1] 82).
                23) Aethylester d. Amidooximidoessigsäure. Sm. 97-98° (Soc. 81, 1575
                     C. 1903 [1] 158).
                24) Amid d. Oximidooxyessig-N-Aethyläthersäure. Sm. 178° (Soc. 81,
                     1566 C. 1903 [1] 157).
                25) Hydroxylamid d. Aethyloxaminsäure. Sm. 138°. Hydroxylaminsalz
                     (Soc. 81, 1572 C. 1903 [1] 158).
C_4H_8O_4N_2
                *1) \alpha\alpha-Dinitrobutan. K (J. pr. [2] 67, 139 C. 1903 [1] 865; G. 33 [1]
                     415 C. 1903 [2] 551).
               *18) Amid d. d-Weinsäure. Sm. 195° u. Zers. (Soc. 83, 1354 C. 1904
                     [1] 84).
                *1) Diureidoessigsäure (Allantoinsäure). Zers. bei 165° (C. r. 138, 426
C_4H_8O_4N_4
                     C. 1904 [1] 792).
C4H8O5Cr
                 1) Gem. Anhydrid d. Buttersäure u. Chromsäure (B. 36, 2218 C. 1902
                     [2] 420).
                *2) Dimethyläther d. Di[Imidomerkaptomethyl]disulfid (B. 36, 2266
C4H8N2S4
                     C. 1903 [2] 562).
                                              Sm. 152—153° (C. 1903 [2] 1415; M. 25, 337
CAHON
                *4) \beta-Oximidobutan.

    C. 1904 [1] 1400).
    18) β-Nitroso-β-Methylpropan. Sm. 76—76,5° (u. Druck) (B. 36, 686)

                     C. 1903 [1] 817).
                19) \alpha-Amido-\beta-Ketobutan. (2HCl, PtCl<sub>4</sub>) (B. 37, 2475 C. 1904 [2] 418). 3) \alpha-Semicarbazonpropan. Sm. 88—90° (A. 335, 202 C. 1904 [2] 1201). 4) isom. \alpha-Semicarbazonpropan. Sm. 154° (A. 335, 202 C. 1904 [2] 1201). 5) Propionylguanidin. HCl, (2HCl, PtCl<sub>4</sub>), (HCl, AuCl<sub>3</sub>) (Ar. 241, 475
C<sub>4</sub>H<sub>0</sub>ON<sub>9</sub>
                     C. 1903 [2] 989).
                *4) \beta- Nitro-\beta-Methylpropan. Fl. (B. 36, C. 1903 [1] 817).
C,HOON
              *4) \beta- Nitro-\beta-Methylpropan. Fl. (B. 36, C. 1903 [1] 817). 

*10) i-\alpha-Amidobuttersäure. (C. 1903 [2] 554). 

*11) \beta-Amidobuttersäure. Sm. 156° (J. pr. [2] 70, 204 C. 1904 [2] 1459). 

*14) \alpha-Amidoisobuttersäure (B. 37, 1923 C. 1904 [2] 196). 

*22) Aethylester d. Amidoessigsäure. HCl (A. 327, 365 C. 1903 [2] 660). 

*23) Aethylester d. Methylamidoameisensäure. Sd. 79,8—80,6°<sub>1415</sub> (B. 36,
                    2476 C. 1903 [2] 559).
                34) α-Oximido-α-Oxybutan (Butyrhydroxamsäure). Sm. 127° (G. 34 [1]
                     432 C. 1904 [2] 511).
              *10) \beta-Semicarbazon-\alpha-Oxypropan. Zers. bei 195-200° (A. 335, 213
\mathbf{C}_{4}\mathbf{H}_{9}\mathbf{O}_{2}\mathbf{N}_{8}
                     C. 1904 [2] 1202).
                12) Aethylamidoformylharnstoff. Sm. 153° (Soc. 81, 1572 C. 1903 [1]
                    158).
                13) \gamma-Semicarbazon-\alpha-Oxypropan. Sm. 114° (A. 335, 220 C. 1904 [2]
                     1203).
                 5) \alpha-Methyläther d. \beta-Chlor-\alpha-\gamma-Dioxypropan. Sd. 172—173^{0}_{737} (C. 1904)
C4HOC1
                    [2] 303.
               *10) α-Oxamidobuttersäure. Sm. 144° (B. 36, 4317 C. 1904 [1] 449)
C_4H_9O_8N
                20) \alpha-Amido-\beta-Oxybuttersäure + \frac{1}{2}H<sub>2</sub>O. Sm. 229—230° u. Zers. NH<sub>4</sub>,
                    HCl (C. 1903 [2] 554).
                21) \beta-Amido-\alpha-Oxyisobuttersäure. Sm. 276° u. Zers. HCl, (2HCl, PtCl<sub>4</sub>)
                    (C. 1903 [2] 555).
                *1) α-Semicarbazidopropionsäure (Am. 28, 399 C. 1903 [1] 90).
C4H9O3N3
                 3) Aethylester d. Semicarbazidoameisensäure. Sm. 126° (P. Gutmann,
                    Dissert. Heidelberg 1903).
                 2) Gem. Anhydrid d. Essigsäure u. Orthosalpetersäure. Hg, Ag<sub>2</sub>
C_{A}H_{0}O_{5}N
                    (C. 1903 [2] 419).
                 2) Monophosphit d. Erythran. Ca + H<sub>2</sub>O (C. r. 136, 1068 C. 1903
C4HOO5P
                    [1] 1297).
                 1) Saure (aus Erythrit) (C. r. 136, 457 C. 1903 [1] 695).
C,H,O,P
                *1) Diacetylsalpetersäure (C. 1903 [2] 1108).
C_4H_0O_7N
                                                                                            2
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 4) Isopropylester d. Amidodithioameisensäure. Sm. 97° (C. r. 135, C4H9NS 975 C. 1903 [1] 139). $^{}5)$ Methylester d. Dimethylamidodithioameisensäure (C. r. 136, 452C. 1903 [1] 699). 7) Methylenäther d. Methyldi [Merkaptomethyl] amin (C. r. 136, 452 C. 1903 [1] 699). 8) Proyylester d. Amidodithioameisensäure. Sm. 57° (58°) (C. 1903 [1] 962; C. r. 135, 975 C. 1903 [1] 139). C₄H₁₀ON₂ *14) Hydrazid d. Buttersäure. Sm. 44°. HCl (*J. pr.* [2] 69, 486 C. 1904 2] 599). Sd. 168°₇₆₇. HCl (B. 35, 15) 4-Amidomorpholin (Morpholylhydrazin). 4474 C. 1903 [1] 404). 16) Hydrazid d. Isobuttersäure. Sm. 104° (J. pr. [2] 69, 497 C. 1904 [2] 600). *4) Dihydrazid d. d-Weinsäure (Soc. 83, 1363 C. 1904 [1] 84). *6) Diäthylester d. Schwefelsäure. (Fe₂O₃, 3SO₃ + 4H₂O) (C. r. 137, 189 C. 1903 [2] 613). $\mathbf{C}_{4}\mathbf{H}_{10}\mathbf{O}_{4}\mathbf{N}_{4}$ $\mathbf{C}_{4}\mathbf{H}_{10}\mathbf{O}_{4}\mathbf{S}$ 1) Verbindung (aus d. Verb. C₄H₈O₄Cl₂P₂) (C. r. 136, 757 C. 1903 [1] $C_4H_{10}O_6P_2$ 1017). 7) β -Chlor- α -Dimethylamidoäthan. Sd. 109—110 $^{\circ}_{750}$. HCl, (HCl, AuCl₃) C4H10NCl (B. 37, 3508 C. 1904 [2] 1322). *1) β-Brom-α-Amidobutan. Pikrat (B. 37, 2482 C. 1904 [2] 420). *1) Thalliumdiäthylchlorid. Zers. bei 205—206° (B. 37, 2057 C. 1904 $C_4H_{10}NBr$ C4H10ClTl [2] 20). *1) Siliciumdiäthyldichlorid (C. 1904 [1] 636). $C_4H_{10}Cl_2Si$ 1) Thalliumdiäthylbromid. Zers. oberh. 270° (B. 37, 2057 C. 1904 C4H10BrTl *1) Thalliumdiathyljodid. Zers. bei 185-187° (B. 37, 2057 C. 1904 C4H10JTI [2] 20). *2) β-Dimethylamido-α-Oxyäthan. (HCl, AuCl₈) (B. 37, 3496 C. 1904 C4H1ON 2] 1320). *5) Diathylhydroxylamin. Sd. 76°ss. HCl, Oxalat (B. 36, 2316 C. 1903 [2] 421). *11) α -Amido- β -Oxybutan. Sd. 168,5—170 $^{\circ}_{77\pm}$ (B. 37, 2479 C. 1904 [2] 419). 12) β -Amidodiäthyläther. Sd. 108—109 $^{\circ}_{750}$. (HCl, AuCl₂) (B. 37, 3506 C. **1904** [2] 1321). 13) β-Hydroxylamido-β-Methylpropan (tert. Butylhydroxylamin) (B. 36, 685 C. 1903 [1] 817. 2) α -Amido- α -Methyl- β -Aethylharnstoff. HCl (B. 37, 2324 C. 1904) $C_4H_{11}ON_3$ [2] 312). *1) Thalliumdiäthylhydroxyd. Sm. 127—128°. Salze siehe (B. 37, 2058) C4H11OT1 C. 1904 [2] 20). *1) β -Amido- $\alpha\gamma$ -Dioxy- β -Methylpropan. HCl, (2HCl, $PtCl_4)$ (C. 1903) CAHUO,N 1] 816). *1) Diäthylester d. Phosphorigen Säure. Sd. 184-186° (C. 1903 [2] 22). $C_4H_{11}O_9P$ 3) Methyläthylcarbinolunterphosphorigesäure. Pb, Cu + H₂O, Ag (C. r. 136, 234 C. 1903 [1] 503; C. 1904 [2] 1708). Methyläthylcarbinolphosphinsäure. Sm. 158–159°. Ag. (C. r. 136, $C_4H_{11}O_4P$ 235 O 1903 [1] 564; O. 1904 [2] 1708). 1) Phosphit d. Erythrit. (Erythrophosphorige Säure) (C. r. 136, 1068) $C_4H_{11}O_6P$ C. 1903 [1] 1296). *1) α -Amido- α -Methyl- β -Aethylthioharnstoff (B. 37, 2320 Anm. C. 1904 $C_4H_{11}N_8S$ [2] 311). *1) Dimethyläthylsulfinchlorid (J. pr. [2] 66, 454 C. 1903 [1] 501).

1) Thalliumdiäthylsulfhydrat (B. 37, 2057 C. 1904 [2] 20). C4H11ClS $C_4H_{11}ST1$ 3) α -Amido- β - $[\beta$ -Oxyāthyl]amidoāthan. Sd. 238—240 $^{\circ}_{752}$ (2HCl, PtCl₄) (B. 35, 4470 C. 1903 [1] 403). C 40,0 — H 10,0 — O 26,7 — N 23,3 — M. G. 120. 1) $\alpha\alpha$ -Di[β -Oxyāthyl]hydrazin. Sd. 188—190 $^{\circ}_{25}$ (B. 35, 4474 C. 1903 $C_4H_{12}ON_2$ $C_4H_{12}O_2N_2$ [1] 404). *1) Tetramethylammoniumehlorid. + 6 HgCl₂ (J. pr. [2] 66, 468 C. $C_4H_{12}NCl$

1903 [1] 561).

- 4 IV -

1) Chlortribrompyrrol. Sm. 96—100° u. Zers. (G. 32 [2] 315 C. 1903 C4HNClBr8 1) Dichlordibrompyrrol. Sm. 100° (G. 32 [2] 317 C. 1903 [1] 587). C4HNCl2Br2 1) 2, 3, 5-Trichlor-4-Brompyrrol. Zers. bei 115° (G. 34 [2] 178 C₄HNCl₃Br C. 1904 [2] 994).
*2) Imid d. Chlormaleïnsäure. Sm. 130° (G. 34 [1] 416 C. 1904 C4H,ONCI 2] 452). 3) 1,2,3-Thiodiazol-4,5-Dicarbonsäure + H_2O . Sm. 98° (oberh. 110°) $C_4H_2O_4N_2S$ wasserfrei) (A. 333, 8 C. 1904 [2] 780). 1) Gem. Imid d. Chloressigsäure u. Trichloressigsäure. Sm. 80° C4H3O2NCl4 (J. pr. [2] 69, 13 C. 1904 [1] 639). 1) 5-Brom-2,4-Diketo-1,2,3,4-Tetrahydro-1,3-Diazin (Bromuracil). C₄H₃O₂N₂Br Sm. 293° (Am. 29, 486 C. 1903 [1] 1309). 1) Amid d. 2,5-Dibromfuran-3-Sulfonsäure. Sm. 153,5°. K, Ag C4H8O8NBr2S (Am. 32, 227 C. 1904 [2] 1140).

1) Verbindung (aus d. Verb. C₃H₂O₃Hg₃) (B. 36, 3708 C. 1903 [2] 1240).

*1) 5-Acetylimido-3-Thiocarbonyl-4,5-Dihydro-1, 2, 4-Dithioazol C4H8O7NHg8 CAHAON,S. (Acetylisopersulfocyansäure) (A. 331, 295 C. 1904 [2] 32). 1) 6-Chlor-4-Amido-2-Keto-1, 2-Dihydro-1, 3-Diazin. Sm. noch nicht C4H4ON8Cl bei 300° (Am. 32, 348 C. 1904 [2] 1414). 1) 5-Brom-4-Amido-2-Keto-1, 2-Dihydro-1, 3-Diazin. Zers. oberh. $C_4H_4ON_3Br$ 235° (Am. 31, 604 C. 1904 [2] 243). 2) 5-Brom-2-Amido-4-Keto-3,4-Dihydro-1,3-Diazin. Sm. 273° u. Zers. (Am. 29, 504 C. 1903 [1] 1311). 1) 6-Jod-2-Amido-4-Oxy-1,3-Diazin. Zers. bei 241° (B. 36, 2230 C4H4ON8J C. 1903 [2] 448).
2) Gem. Imid d. Chloressigsäure u. Dichloressigsäure. Sm. 98° C4H4O2NCl8 (J. pr. [2] 69, 12 C. 1904 [1] 639). 4) 5-Methyl-1, 2, 3-Thiodiazol-4-Carbonsäure + H₂O. $C_4H_4O_2N_2S$ (113° wasserfrei) (A. 325, 177 C. 1903 [1] 646; A. 333, 6 C. 1904 [2] 780). 1) 5-Oximido-6-Imido-2-Thiocarbonyl-4-Ketohexahydro-1, 3- $C_4H_4O_2N_4S$ Diazin + ½ H₂O (A. 331, 73 C. 1904 [1] 1200). 1) 5-Oxy-2, 4, 6-Triketohexahydro-1, 3-Diazin-5-Sulfonsäure $C_4H_4O_7N_2S$ (Alloxansulfit). (NH₄)₂, $K_2 + H_2O$, Dimethylaminsalz (A. 333, 94 C. **1904** [2] 829). 2) 2-Thiocarbonyl-4-Keto-3-Methyltetrahydrothiazol. Sm. 72° CAHONS (M. 25, 167 C. 1904 [1] 894). 4) 6-Amido-2-Thiocarbonyl-4-Keto-1,2,3,4-Tetrahydro-1,3-Diazin C4H5ON8S + H₂O (d. 331, 71 *C.* 1904 [1] 1199). + n_2 U (A. 331, 71 C. 1904 [1] 1199). *1) Aethyläther d. $\alpha\beta\beta$ -Trichlor- $\alpha\beta$ -Dibrom- α -Oxyäthan. Sd. 124—129 $^{\circ}_{25-30}$ (G. 33 [2] 386 C. 1904 [1] 921). 1) Imid d. Chloressigsäure. Sm. 189 $^{\circ}$ u. Zers. (195 $^{\circ}$) (J. pr. [2] 69, 11 C. 1904 [1] 639; J. pr. [2] 69, 353 C. 1904 [2] 510). 1) Selencyanacetylharnstoff. Sm. 178—179 $^{\circ}$ u. Zers. (Ar. 241, 181 C4H5OCl8Br2 C4H5O2NCl2 $C_4H_5O_2N_3Se$ C. 1903 [2] 103). *1) Thionursäure (A. 333, 98 C. 1904 [2] 829) $C_4H_5O_6N_3S$ Verbindung (aus Chloressigsäurenitril u. HBr). Sm. 143° u. Zers. (J. pr. [2] 69, 356 C. 1904 [2] 510).
 Nitril d. γ-Brom-β-Oxybuttersäure. Sd. 149-150°₁₂ (C. r. 136, 1905). C4H5N2Cl2Br C.H.ONBr 1265 C. 1903 [2] 106). 3) Amid d. γ-Bromerotonsäure. Sm. 110° (C. r. 138, 1050 C. 1904 [1] 1481).

1) $Di[\beta\beta$ -Difluoräthyl] nitrosamin. Sd. 178,6 $^{\circ}_{755}$ (C. 1904 [2] 945).

C4H6ON2F4

	7-
$\mathbf{C_4H_6ON_2Se}$	1) 2-Imido-4-Keto-5-Methyltetrahydroselenazol (a-Methylselenhy-
$\mathbf{C_4H_8ON_4S}$	dantoin). Sm. 179° (Ar. 241, 197 C. 1903 [2] 103). 3) 5,6-Diamido-2-Thiocarbonyl-4-Keto-1, 2, 3, 4-Tetrahydro-1, 3-
$\mathbf{C_4H_6O_2NCl}$	Diazin (A. 331, 74 C. 1904 [1] 1200). 3) Gem. Imid d. Essigsaure u. Chloressigsaure. Sm. 105—106°
$\mathrm{C_4H_6O_2ClBr}$	(J. pr. [2] 69, 15 C. 1904 [1] 640). 3) γ-Chlor-β-Brombuttersäure. Sm. 49—50° (C. r. 136, 1266 C. 1903
$egin{array}{l} \mathbf{C_4H_6O_2BrF} \\ \mathbf{C_4H_6O_2JF} \end{array}$	[2] 106; C. r. 138, 1051 C. 1904 [1] 1482). *1) Aethylester der Bromfluoressigsäure. Sd. 154° (C. 1903 [1] 12). 1) Aethylester d. Jodfluoressigsäure. Sd. 180° u. ger. Zers. (C. 1903 [1] 12).
C ₄ H ₇ ONBr ₂	[1] 13). 3) Amid d. βγ-Dibrombuttersäure. Sm. 86° (C. r. 138, 1050 C.
$C_4H_7ONS_2$	*2) Methylester d. Acetylamidodithioameisensäure. Sm. 1190 (R)
$\mathbf{C_4H_7OClF_2}$	[3] 29, 51 α . 1903 [1] 446). 1) Aethyläther d. α -Chlor- $\beta\beta$ -Diffuor- α -Oxyäthan. Sd. 90° (α . 1903
$\mathbf{C_4H_7OCl_2F}$	1) Aethyläther d. $\beta\beta$ -Dichlor- α -Fluor- α -Oxyäthan. Sd. 121° (C.
C ₄ H ₇ O ₂ NS	*1) Aethylester d. Thiooxaminsäure (R 37 3721 C 1904 (2) 1450)
C ₄ H ₇ O ₂ N ₂ Br C ₄ H ₇ O ₂ BrHg	103). Sm. 162° (Ar. 241, 195 C. 1903 [2]
C ₄ H ₇ N ₂ ClS	1) Acetat d. Quecksilber-β-Oxyäthylbromid. Sm. 75° (A. 329, 188 C. 1903 [2] 1414).
C ₄ H ₇ N ₂ JS	3) Chlormethylat d. 5-Methyl-1, 2, 3-Thiodiazol. 2 + PtCl ₄ , + AuCl ₈ (A. 333, 17 C. 1904 [2] 781).
	2) Jodmethylat d. 5-Methyl-1,2,3-Thiodiazol. Sm. 76-77° (A. 333, 16 C. 1904 [2] 781).
C ₄ H ₅ ON ₂ S	3) Methylhydroxyd d. 5-Methyl-I,2,3-Thiodiazol. Salze siehe (A. 333, 16 C. 1904 [2] 781).
C ₄ H ₈ ON ₂ S ₂	2) Dimethyläther d. Dimerkaptomethylenharnstoff. Zers. bei 217" (A. 331, 288 C. 1904 (21 31)
$C_4H_8O_2NC1$ $C_4H_8O_2N_2S$	4) \archiver-\beta-\text{Nitro-\beta-Methylpropan} \text{Sd} \text{181} \text{185} \text{181} \text{186} \text{181} \text{186} \text{181} \text{186} \
$C_4H_8O_4Cl_2P_2$	phansaure). HCl (Soc. 83, 566 C. 1903 11, 1199)
	[1] 1017). (aus \ap-Dioxy\text{athan u. PCl}_3) (C. r. 136, 756 C. 1903)
$C_4H_9O_2CIS$	*2) Dimethylthetinchlorid. + 6 HgCl ₂ (J. pr. [2] 66, 465 C. 1903
$\mathbf{C}^{4}\mathbf{H}^{10}\mathbf{N}\mathbf{Cl}^{5}\mathbf{b}$	*1) Diäthylamidodichlorphosphin. Sd. 189° (A. 326, 154 C. 1903
	2) Isobutylamidodichlorphosphin. Sd. 101 ° 10 (A. 326, 150 C. 1903 [1] 760).
$\mathbf{C}_{4}\mathbf{H}_{10}\mathbf{N}\mathbf{C}\mathbf{I}_{4}\mathbf{P}$	1) Diäthylamidophosphortetrachlorid. + PCl ₅ (A. 326, 160 C.
$C_4H_{18}O_2N_2P$	1) Amid-Diäthylmonamid d. Phosphorsäure? Sm. 144° (A. 326, 191 C. 1903 [1] 820).
	- 4 V -
C_4HO_9NClBr	1) Imid d. Chlorhrommele" " "

$\mathrm{C_4HO_2NClBr}$	1) Imid d. Chlorbrommaleïnsäure. Sm. 196° (G. 32 [2] 127 C. 1904 [2] 993).
C4H5O2NClBr	[2] 993).
Oltre Olt CIPL	
$C_4H_{10}ONCl_2P$	*1) Diathylmonamid d. Phogphongianadistr
	181 C. 1903 [1] 819). Rosphorsauredichlorid. Sd. 220° (A. 326,
	2) Isobutylmonamid d. Phosphorsäuredichlorid. Sd. 141 1, (A. 326, 174 C. 1903 [1] 819).
$C_4H_{10}ONBr_2P$	326, 174 C. 1903 [1] 819). 1) Diäthylmonamid d. Bharalan "" (A.
CI TT TT CIT CIT	1) Diäthylmonamid d. Phosphorsäuredibromid. Fl. (4. 326, 194 C. 1903 [1] 820).
$C_4H_{10}NCl_2SP$	*1) Diäthylmonamid d Thionhami

*1) Diäthylmonamid d. Thiophosphorsäuredichlorid. A. 326, 211 C. 1903 [1] 822).
2) Isobutylmonamid d. Thiophosphorsäuredichlorid. (A. 326, 204 C. 1903 [1] 821). Sd. 107%

Sd. 251"

1) Diäthylmonamid d. Thiophosphorsäuredibromid. Fl. (A. 326, C4H10NBr2SP 216 C. 1903 [1] 822).

- 4 VI -

C₄H₈O₈NClBrS 1) Amid d. 5-Chlor-2-Bromfuran-3-Sulfonsäure. Sm. 134—135° K, Ag (Am. 32, 216 C. 1904 [2] 1140).

C₅-Gruppe.

*1) Cyklopentadiën (B. 35, 4151 C. 1903 [1] 159). C_5H_6

 C_5H_8

5) polym. Cyklopentadiën (B. 35, 4152 C. 1903 [1] 159).

*7) αγ-Pentadiën (C. 1904 [2] 183).

16) βγ-Pentadiën. Sd. 49–51° (C. 1904 [1] 577).

17) 1-Methylen-R-Tetramethylen? Sd. 43°₇₂₇ (C. 1903 [1] 828).

18) Kohlenwasserstoff (aus Asclepias syriaca L.) = $(C_5H_8)_x$ (J. pr. [2] 68, *1) α-Penten (G. 38 [1] 77 C. 1903 [1] 1109).

*2) β-Penten (C. 1903 [2] 339).

*4) γ-Methyl-α-Buten (B. 36, 2004 C. 1903 [2] 336).

*5) Trimethyläthylen (B. 36, 2016 C. 1903 [2] 337).

 C_5H_{10}

*8) 1,1-Dimethyl-R-Trimethylen (B. 36, 2015 C. 1903 [2] 337).

- 5 II -

*2) 1,4-Pyron. HCl, 2 + (HCl, AuCl₃), 3 + (HCl, AuCl₃), Oxalat, 2 + CaCl₂, + HgCl₃, 4 + (AgNO₃)₇, + CH₃OK, + C₂H₅ONa (B. 37, 3745 C. 1904 [2] 1538). $C_5H_4O_2$

*2) Isobrenzschleimsäure. Sm. 92°; Sd. 102°, Hydroxylaminsalz, Phenylhydrazinsalz (Bl. (3) 29, 337 C. 1903 [1] 1217; C. r. 136, 50 C. 1903 $C_5H_4O_8$ [1| 443; Bl. [3] 29, 406 C. 1903 [1] 1302).

*5) Anhydrid d. Itakonsäure (B. 37, 3969 C. 1904 [2] 1604). *1) Pyridin. Sd. 115,2°,00. 2 + 3 HgCl₂ (Am. 29, 2 C. 1903 [1] 524; A. 326, 314 C. 1903 [1] 1088; C. r. 136, 1557 C. 1903 [2] 384; B. 37, C_5H_5N 559 C. 1904 [1] 873).

 $\mathbf{C}_5\mathbf{H}_5\mathbf{N}_5$ *1) Adenin + H_2O (A. 331, 86 C. 1904 [1] 1200).

*4) Andhydrid d. i-Propan - $\alpha\beta$ - Dicarbonsäure. Sm. 32,5 — 34,5 ° (37 °) $C_5H_6O_8$ Sd. 244—248° (238—240°) (C. 1903 [2] 288; Soc. 85, 542 C. 1904 [1]

7) Anhydrid d. r-Propan- $\alpha\beta$ -Dicarbonsäure. Sm. 67-68° (C. 1903 [2])

 $C_5H_6O_4$ *8) R-Trimethylen-1,1-Dicarbonsäure. Sm. 140-141° (Soc. 83, 1379) C. 1904 [1] 162, 437).

*9) mal. (cis)-R-Trimethylen-1,2-Dicarbonsaure. Ag. (Soc. 83, 1379) C. 1904 [1] 162, 437).

*10) fum. [trans]-R-Trimethylen-1,2-Dicarbonsäure. Sm. 175%. (Soc. 83, 1379 C. 1904 [1] 162, 437; B. 36, 3786 C. 1904 [1] 43; B. 37, 2105 C. 1904 [2] 104).

9) Methylenester d. Aepfelsäure (R. 21, 315 C. 1903 [1] 137). $C_5H_6O_5$

4) Monoformal-d-Weinsäure. Sm. 160° . Ba $+ 2 \text{ H}_2\text{ O}$ (R. 21, 313) C5H6O6 C. 1903 [1] 137).

5) Monoformal-1-Weinsäure. Sm. 159-161°. Ba $+ 2 H_2 O$ (R. 21, 314 C. 1903 [1] 137).

6) Monoformal-i-Weinsäure. Sm. 135°. Ba (R. 21, 314 C. 1903 [1] 137). 7) Monoformaltraubensäure. Sm. 148°. Ba $+ 2 H_2 O$ (R. 21, 314) C. 1903 [1] 137).

C5H6N2 11) 2-Methyl-1,3-Diazin. Sm. -5°; Sd. 138°₇₅₈ (B. 37, 3642 C. 1904 [2] 1416).

*1) 1-Methylpyrrol. Sd. 112—112,5°₇₂₀ (B. 37, 2792 C. 1904 [2] 531). *2) 2-Methylpyrrol. Sd. 144,5—145,5° (G. 33 [2] 267 C. 1904 [1] 40; B. 37, 2793 C. 1904 [2] 531). C_5H_7N

4) 4-Amido-2-Methyl-1, 3-Diazin. Sm. 205°. HNO₃ (B. 37, 3642 C. $C_5H_7N_3$ 1904 [2] 1416).

*7) Acetyl-R-Trimethylen (B. 36, 1379 U 1903 [1] 1416; B. 36, 1795 C. C5H8O 1903 [2] 282). C5H8O2 *1) $\beta \gamma$ -Diketopentan. Sd. 108° (Bl. [3] 31, 1174 C. 1904 [2] 1701). *2) Acetylaceton. SnCl₂-Verbindung, TiCl₂, (FeCl₃, TiCl₂), (PtCl₄, TiCl₂) (B. 36, 929 C. 1903 [1] 1025; B. 36, 1834 C. 1903 [2] 191; B. 37, 589 C. 1904 [1] 867; A. 331, 336 C. 1904 [1] 1593; B. 37, 3450 C. 1904 [2] 1274). *4) a-Buten-a-Carbonsäure. Sm. 7—9°; Sd. 100—102°_{18,5} (B. 35, 4267° C. 1903 [1] 280; A. 334, 205 C. 1904 [2] 884).

*6) Angelikasäure (Bl. [3] 29, 327 C. 1903 [1] 1225).

*7) a-Buten-b-Carbonsäure (A. 334, 206 C. 1904 [2] 884). *8) β-Buten-α-Carbonsäure. Ba (A. 331, 138 C. 1904. [1] 933; A. 334, 206 C. 1904 [2] 884).

*9) Tiglinsäure (Bl. [3] 29, 330 C. 1903 [1] 1226).

*10) β-Methylpropen-α-Carbonsäure (M. 24, 769 C. 1904 [1] 158). *13) Lakton d. γ -Oxyvaleriansäure (C. 1903 [2] 288). *14) Lakton d. \$\delta \cdot \ *24) Verbindung (aus δ-Oxy-α-Methylglutarsäure). Sd. 222—226° (B. 36, 1202 C. 1903 [1] 1175). 27) polym. Lakton d. δ -Oxyvaleriansäure. = $(C_5H_8O_9)_x$. Sm. 47-48° (B. 36, 1200 C. 1903 [1] 1175). C.H.O. *6) α-Ketobutan-α-Carbonsäure. Sd. 179°. $Ca + 2H_2O$, $Ba + H_2O$, Ag(A. 331, 129 C. 1904 [1] 932). Lävulinsäure. Ca + 2H₂O (A. 331, 108 C. 1904 [1] 931; E. 37. *8) Lävulinsäure. Ca + 2710 C. 1904 [2] 528). *14) $a\gamma$ -Lakton d. $ar{eta}\gamma$ -Dioxybutan-a-Carbonsäure? Fl. (A. 334, Ω 2 ℓ 1. 1904 [2] 887). 28) Monoformal-α-Oxybuttersäure. Sd. 1640 (R. 21, 318 C. 1903 | 1 | 137). 29) Monoformal-β-Oxybuttersaure. Sm. 9°; Sd. 190° (R. 21, 318 C. 1903 [1] 137). 30) Monoformal-α-Oxyisobuttersäure. Sd. 142° (R. 21, 318 C. 1903 1. 137). 31) αγ-Lakton d. αγ-Dioxybutan-α-Carbonsäure. Fl. (A. 334, SS C. 1904 [2] 887). 32) Aldehyd d. r-α-Acetoxylpropionsäure. Sd. 52 - 55°₁₅ (A. 335, 266)
 C. 1904 [2] 1284). *1) \alpha-Acetoxylpropions\text{\text{aure.}} \ \text{Sm. 57-60°; Sd. 127°; } \ \((B. 36, 468 \) \((L. 1903 \) \[[1] \] \((B. 37, 3972 \) \((C. 1904 \) \[[2] \] \((B. 36, 468 \) \((L. 1904) \] \((B. 36, 468 \) \((L. 1904) \) \((B. 36, 468) \) \((B. 3 C5HSO4 *4) Propan-αα-Dicarbonsäure (C. 1903 [2] 1330). *5) Brenzweinsäure (C. 1903 [2] 712). *6) Glutarsäure (C. 1903 [2] 1053, 1330). *14) Diacetat d. Dioxymethan (C. 1903 [2] 656). *16) $\gamma\gamma$ -Dioxy- $\beta\delta$ -Diketopentan. Ba₂, Pb + H₂O (B. 36, 3225 C. 1903 [2] 940). 19) r-Propan-αβ-Dicarbonsäure. Sm. 112,5—113,5° (C. 1903 [2 288).
20) Monomethylester d. Bernsteinsäure. Sm. 57-58°; Sd. 151° 20. Ag. (Bl. [3] 29, 1046 C. 1903 [2] 1424; Soc. 85, 539 C. 1904 [1 1481). *5) r- β -Oxypropan- $\alpha\beta$ -Dicarbonsäure. Sm. 116—117° (B. 35, 4376) (... C5H8O5 1903 [1] 281). *9) β-Oxypropan-αγ-Dicarbonsäure. Sm. 95° (Bl. [3] 29, 1014 (; 1903 2] 1315). *6) Monomethylester d. d-Weinsäure. K. (Soc. 85, 1122 C. 1904 22 C5H8O8 8) Dimethylester d. Dioxymethandicarbonsäure. Sm. 81° (77,5°) 1C. r. 137, 198 C. 1903 [2] 659; B. 37, 1781 C. 1904 [1] 1483). *3) d-\alpha\gamma C,H,O, *4) 1,2-Dimethylimidazol. Sd. 205-206° (2HCl, PtCl₄), (HCl, AuCl₃), Pikrat (Soc. 88, 469 C. 1903 [1] 931, 1143).

7) Methyläthylaziäthan. Sm. 206° (B. 36, 3186 C. 1903 [2] 939).

8) 1,3-Dimethylpyrazol. Sd. 148°. HCl, (2HCl, PtCl₄), (HCl, AuCl₃, -1-24). C5H8N 2H₂O) (Soc. 83, 467 C. 1903 [1] 931, 1143).

 $C_5H_8N_2$ 9) 4,5-Dimethylpyrazol. Sm. 55-57° (C. 1903 [2] 1324). 10) 4-[oder 5]-Aethylimidazol. Fl. (HCl, AuCl₃), HNO₃, Pikrat (B. 37, 2477 C. 1904 [2] 419). 24.7 C. 1904 [2] 419.

11) 1,4-[oder 1,5]-Dimethylimidazol. Sd. 210—215°. (2 HCl, PtCl₄), (HCl, AuCl₃), Pikrat (Soc. 83, 443 C. 1903 [1] 930, 1143).

12) isom. 1,4-[oder 1,5]-Dimethylimidazol. Sd. 116°₂₅. HCl, (2 HCl, PtCl₄), (HCl, AuCl₃), Pikrat (Soc. 83, 465 C. 1903 [1] 931, 1143).

13) Nitril d. α-Aethylidenamidopropionsäure. Sd. 152° (Bl. [3] 29, 110° C. 1904 [1] 254). 1185 C. 1904 [1] 354). C5H8Br9 9) 1-Brom-1-Brommethyl-R-Tetramethylen? Sd. 192-193° (C. 1903) [1] 828). $C_5H_8Br_4$ *2) $\alpha \beta \gamma \delta$ -**T**etrabrompentan. Sm. 41,5—43° (C. 1904 [2] 183) *2) 5-Methyl-2,3-Dihydropyrrol. Sd. 42-45095-100 (G. 33 [2] 314 C. C_5H_9N **1904** [1] 292). *7) Nitril d. β -Methylpropan- α -Carbonsäure (C. 1904 [2] 665). Verbindung (aus d. Verb. $C_5H_{10}ON_4$). = $(C_5H_9N_4)_x$. Sm. 147° u. Zers. (B. 36, 1298 C. 1903 [1] 1256). C5H9N4 (B: 30, 1290 C. 1905 [1] 1200).

*1) Brom-R-Pentamethylen. Sd. 135—138°₇₄₃ (C. 1903 [1] 828).

5) βγγ-Tribrom-β-Methylbutan (B. 37, 548 C. 1904 [1] 866).

*14) Pentan-αδ-Oxyd. Sd. 77,5—78°₇₄₀ (M. 23, 1087 C. 1903 [1] 384; M. 24, 354 C. 1903 [2] 552).

*15) Pentan-αε-Oxyd. Sd. 81—82° (M. 23, 1073 C. 1903 [1] 393). C5H9Br $C_5H_{10}O$ *17) β -Methylbutan- $\beta\gamma$ -Oxyd (B. 36, 2018 C. 1903 [2] 338). *21) β -Ketopentan (Bl. [3] 29, 673 C. 1903 [2] 487; C. r. 137, 576 C. 1903 [2] 1110). *22) γ -Ketopentan (*C. r.* 137, 576 *C.* 1903 [2] 1110). *23) γ -Keto- β -Methylbutan. Sd. 93—94° (*Bl.* [3] 29, 674 *C.* 1903 [2] 487). *24) Aldehyd d. Valeriansäure. Sd. 101—102° (*C. r.* 138, 698 *C.* 1904 [1] 1066). *26) Aldehyd d. Isovaleriansäure. + Anilinsulfit, + Anilinanhydrosulfit (4. 325, 356 C. 1903 [1] 696; C. r. 137, 989 C. 1904 [1] 257; M. 25, 150 C. 1904 [1] 1000). *33) l-Oxymethyl-R-Tetramethylen. Sd. 139 $^{\circ}_{747}$ (C. 1903 [1] 828). *7) s-Oxy- β -Ketopentan (M. 24, 351 C. 1903 [2] 551). *14) l-Butan- β -Carbonsäure (B. 37, 352 C. 1904 [1] 579). *15) Isovaleriansäure. NH₄ (M. 23, 1053 C. 1903 [1] 387). *21) Aethylester d. Propionsäure [Bl. [3] 29, 1044 C. 1903 [2] 1424). *1) Aethylidenäther d. $\alpha\beta\gamma$ -Trioxypropan. Sd. 85 $^{\circ}_{15}$ (A. 335, 214 C. 1904 [2] 1202) $\mathbf{C_5H_{10}O_2}$ $\mathbf{C_5H_{10}O_3}$ 1904 [2] 1202). *2) α -Oxyvaleriánsäure. Sm. 34°. Ca, Zn + 2H₂O (A. 331, 132 C. **1904** [1] 932). *10) β -Oxy- β -Methylpropan- α -Carbonsäure. Ag (M. 24, 768 C. 1904) [1] 158). *32) α -Oxy- β -Methylpropan- β -Carbonsäure. Sm. 124° (123°) NH₄, K, Ca $+ \frac{1}{2}$ H₂O (Bl. [3] 31, 119 C. 1904 [2] 664; M. 25, 869 C. 1904 [2] 1106)*35) Aethylester d. β -Oxypropionsäure. Sd. 187° (170—175°) (Bl. [3] 29, 1044 C. 1903 [2] 1424; B. 37, 1276 C. 1904 [1] 1335). 38) α -Acetat d. $\alpha\beta$ -Dioxypropan. Sd. 182—183° $_{700}$ (C. 1903 [2] 486). *2) $\beta\gamma$ -Dioxybutan- α -Carbonsäure? Ca, Ba + H₂O, Ag (A. 334, 94 C. 1904 [2] 887). $C_5H_{10}O_4$ *7) Aethylester d. αβ-Dioxypropionsäure. Sd. 200° (B. 37, 1277 C. 1904) [1] 1335). 13) Parasaccharopentose. Sm. 81,5-82° (B. 37, 1200 C. 1904 [1] 1197). 14) $\alpha \gamma$ -Dioxybutan- α -Carbonsäure. Ca, Ba, Zn (A. 334, 90°C. 1904 [2] 887). *1) d-Arabinose (B. 36, 1194 C. 1903 [1] 1217). *2) 1-Arabinose (B. 36, 1194 C. 1903 [1] 1217; B. 37, 1210 C. 1904 [1] 1337). *4) 2-Methyl-1,4,5,6-Tetrahydro-1,3-Diazin. Sm. 72—74°; Sd. 120-120°₁₂ $C_5H_{10}O_5$ $C_8\mathbf{H}_{10}\mathbf{N}_2$ (2 HCl, PtCl₄), HNO₃, Oxalat, Pikrat, harnsaures Salz (B. 36, 334 C. 1903 8) αγ-Di[Methylenamido]propan. Fl. (B. 36, 36 C. 1903 [1] 502).
9) Nitril d. α-Aethylamidopropionsäure. Sd. 153—154 6 (C. 1904 [2] 945).

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10) Nitril d. \alpha-Dimethylamidopropionsäure. Sd. 144° (C. 1904 [2] 945). *2) \beta\gamma-Dichlor-\beta-Methylbutan (M. 23, 1082 C. 1903 [1] 384). *5) \gamma\delta-Dichlor-\beta-Methylbutan. Sd. 142—145° (M. 23, 1079 C. 1903 \gamma\delta-Dichlor-\delta-Methylbutan.
C_5H_{10}N_2
C_5H_{10}Cl_2
                                                [1] 384).
                                 *11) \beta_{7}-Dichlorpentan. Sd. 50-51^{\circ}_{20} (M. 23, 1085 C. 1903 [1] 384). 12) \alpha\delta-Dichlorpentan. Sd. 58-60^{\circ}_{15} (M. 23, 1088 C. 1903 [1] 384). 13) \alpha\varepsilon-Dichlorpentan. Sd. 176-178^{\circ} u. Zers. (B. 37, 2918 C. 1904 [2]
                                     *2) $\alpha \delta$-Dibrompentan. Sd. 99° \( \text{14} \) (M. 23, 1086 $C$. 1903 [1] 384).

*3) $\alpha \epsilon$-Dibrompentan. Sm. $-34$ bis $-35°$; Sd. $221° \( \text{1903} \) (M. 23, 1071 \\
$C$. 1903 [1] 393; $C$: $r$. 138, 1611 $C$. 1904 [2] 429; $B$. 37, 3210 $C$. 1904
C_5H_{10}Br_2
                                  *5) \beta \gamma-Dibrompentan. Sd. 74^{\circ}_{17} (M. 23, 1083 C. 1903 [1] 384).

*8) \beta \gamma-Dibrom-\beta-Methylbutan. Sd. 61-64^{\circ}_{17} (M. 23, 1081 C. 1903 [1] 384).

*10) \gamma \delta-Dibrom-\beta-Methylbutan (M. 23, 1077 C. 1903 [1] 384).

15) \beta \delta-Dibrompentan. Sd. 63,5^{\circ}_{9} (C. 1904 [1] 1327).

2) \alpha \varepsilon-Dijodpentan. Sm. 9^{\circ}_{17}; Sd. 149^{\circ}_{20} (C. r. 138, 1611 C. 1904 [2] 429).

*9) 1-Amidomethyl-R-Tetramethylen. Sd. 110^{\circ}_{753} (82—83°?) (C. 1903
 \mathbf{C}_{5}\mathbf{H}_{10}\mathbf{J}_{2}
 C_5H_{11}N
                                                 [1] 828).
                                   *11) 2-Methyltetrahydropyrrol. Sd. 95^{\circ}_{742}. (HCl, AuCl<sub>8</sub>) (G. 33 [2] 267 C. 1904 [1] 40; G. 33 [2] 314 C. 1904 [1] 292). 
*13) Piperidin. + P_{10}H_4 (B. 36, 993 C. 1903 [1] 1072). 
*6) \gamma-Chlor-G-Methylbutan (C. 1904 [2] 691).
  C_5H_{11}Cl
                                      *4) $\beta$-Brom-$\beta$-Methylbutan ($C$, 1904 [2] 691).
*5) $\gamma$-Brom-$\beta$-Methylbutan ($C$, 1904 [2] 691).
*6) $\delta$-Brom-$\beta$-Methylbutan ($C$, 1904 [2] 691).
  C<sub>5</sub>H<sub>11</sub>Br
                                         9) d-α-Brom-β-Methylbutan. Sd. 118-120° (B. 37, 1046 C. 1904 [1] 1248).
                                       *6) \gamma-Jod-\beta-Methylbutan (C. 1904 [2] 691).
  C_5H_{11}J
                                      *7) \delta-Jod-\beta-Methylbutan. Sd. 147° cor. (B. [3] 31, 600 C. 1904 [2] 19). 9) d-\alpha-Jod-\beta-Methylbutan (B. 37, 1045 C. 1904 [1] 1248). *1) \alpha-Oxypentan (M. 25, 1090 C. 1904 [2] 1698).
  C5H12O
                                       *2) β-Oxypentan. Sd. 118° (C. r. 137, 302 C. 1903 [2] 708).

*3) γ-Oxypentan. Sd. 116° (C. r. 137, 302 C. 1903 [2] 708).

*4) 1-α-Οxy-β-Methylbutan. Sd. 126—128° (M. 25, 1098 C. 1904 [2] 1698).

*7) Isoamylalkohol (C. r. 137, 302 C. 1903 [2] 708; M. 24, 533 C. 1903 [2] 869; βl. [3] 31, 599 C. 1904 [2] 18).

*8) α-Οxy-β-Dimethylpropan (M. 25, 1094 C. 1904 [2] 1698).
                                        16) Methyläther d. \beta-Oxy-\beta-Methylpropan. Sd. 53-54° (C. 1903 [1]
                                                  1119; 1904 [1] 1065).
                                        *1) \alpha \delta-Dioxypentan.
                                                                                                          Sd. 115—116°<sub>14</sub> (M. 23, 1088 C. 1903 [1] 384;
  C5H12O2
                                       M. 24, 353 C. 1903 [2] 551).
*3) β_7-Dioxypentan. Sd. 96,5—97°<sub>17</sub> (M. 23, 1084 C. 1903 [1] 384).
*4) β_0-Dioxypentan. Sd. 197° (C. 1904 [1] 1327).
*5) αβ-Dioxy-β-Methylbutan. Sd. 186—189° (C. r. 137, 757 C. 1903 [2]
                                        *1) Pentaerythrit (B. 36, 1349 C. 1903 [1] 1299).
   C_5H_{12}O_4
                                        7) 3,5-Dimethyltetrahydropyrazol. Sm. -5 bis -7°; Sd. 141-143°, 46. HCl, H<sub>2</sub>SO<sub>4</sub>, Pikrat, + Aceton (B. 36, 221 C. 1903 [1] 522).

*3) Aethylpropylsulfid. Sd. 117°, 45 (J. pr. [2] 66, 527 C. 1903 [1] 561).

*4) Aethylisopropylsulfid. Sd. 106-107° (J. pr. [2] 66, 526 C. 1903
   C<sub>5</sub>H<sub>12</sub>N,
   C_5H_{12}S
                                                   [1] 561).
                                     *3) γ-Amidopentan (B. 36, 703 C. 1903 [1] 818).

*4) β-Amido-β-Methylbutan (B. 36, 692 C. 1903 [1] 817).

*6) Isoamylamin. Salze siehe (C. r. 135, 902 C. 1903 [1] 131).

*11) Aethylisopropylamin. (2HCl., PtCl.) (C. 1904 [1] 923).
   C, H, N
                                      *13) Methyldiathylamin. (2 HCl, PtCl<sub>4</sub>) (C. 1904 [1] 923).
16) d-α-Amido-β-Methylbutan. Sd. 95,5—96°. HCl, (2 HCl, PtCl<sub>4</sub>) (B. 37,
                                                    1047 C. 1904 [1] 1248).
                                        *1) $\alpha \tilde{c}$ - \text{Diamidopentan (Cadaverin, Musculamin).} \text{ 2 HCl, (2 HCl, PtCl_4)} \( \begin{align*} (C. \ r. 135, 699 \ C. 1902 \ [2] \] 1365; \( C. \ r. 135, 865 \ C. 1903 \ [1] \] 46; \\ \Chi \text{ r. 136, 1285 \ C. 1903 \ [2] \] 127; \( B. 37, 3587 \ C. \] 1904 \ [2] \] 1407).

*3) stab. $\beta \text{b} \text{Diamidopentan.} \quad \text{Fl. (B. 36, 224 \ C. 1903 \ [1] \] 522).

*9) Spermin (C. \ r. 135, 1141 \ C. 1903 \ [1] \] 27.
   C_5H_{14}N_2
                                         *1) Zinntrimethyläthyl. Sd. 107-108 5, G. (C. 1904 [1] 353).
    C_5H_{14}Sn
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5 III

C 33.0 - H 1.1 - O 35.1 - N 30.8 - M. G. 182. $C_5H_2O_4N_4$ 1) Verbindung (aus β -Nitroisoxazol). Ag (Am. 29, 273 C. 1903 [1] 958). 1) Methylenester d. Trichloressigsäure. Sm. 76° (C. r. 136, 1566 C. C5H2O4Cl6 **1903** [2] 342). *2) Chlorid d. Furan-2-Carbonsäure. Sd. 173° (B. 37, 2951 C. 1904) C₅H₃O₂Cl [2] 992). 6) Bromisobrenzschleimsäure. Sm. 172°. Hydroxylaminsalz, Phenylhydrazinsalz (C. r. 136, 49 C. 1903 [1] 443). $C_5H_9O_9Br$ 1) 2,3,4,5-Tetrachlor-1-Methylpyrrol. Sm. 118-119° (G. 34 [1] 259 C5H3NCl4 C. 1904 [2] 120). *1) Hypoxanthin (A. 331, 78 C. 1904 [1] 1200).
6) polym. Nitropyridin. Zers. bei 234° (C. 1903 [1] 1033). $C_5H_4ON_4$ $\mathbf{C}_{5}\mathbf{H}_{4}\mathbf{O}_{2}\mathbf{N}_{2}$ 7) 1,3-Diazin-5-Carbonsäure. Sm. 270° (B. 37, 3650 C. 1904 [2] 1513). *1) Xanthin (D.R.P. 143725 C. 1903 [2] 474). *1) Harnsäure (J. pr. [2] 67, 274 C. 1903 [1] 1218; G. 33 [2] 93, 98 C. 1903 [2] 1287). $C_5H_4O_2N_4$ $C_5H_4O_3N_4$ *5) $\alpha \gamma$ -Lakton d. $\alpha \beta$ -Dibrom- $\gamma \gamma$ -Dioxypropen- γ -Methyläther- α -Carbonsäure. Sm. 51°; Sd. 249–251° (M. 25, 493 C. 1904 [2] 324). $C_5H_4O_8Br_2$ 6) Methylester d. αβ-Dibromäthen-α-Carbonsäure-β-Carbonsäureal-dehyd (M. d. Mukobromsäure). Sd. 230-234° (M. 25, 493 C. 1904 [2] 324). $C_5H_4O_4N_2$ *7) Imidazol-4,5-Dicarbonsäure (B. 37, 701 C. 1904 [1] 1562). 10) Amid d. P-Nitrofuran-2-Carbonsäure. Sm. 1800 (C. r. 137, 520 C. 1903 [2] 1069). *2) 3-Chlorpyridin. Sd. 147-149°. (2HCl, PtCl₄) (B. 37, 3835 C. 1904 C5H4NCI [2] 1615). 1) 2,3,5-Trichlor-1-Methylpyrrol. Fl. (G. 34 [1] 257 C. 1904 [2] 120).

*3) 4-Oxypyridin. '/₂HCl + H₂O, '/₂HBr + H₂O, '/₂HJ + H₂O (C. 1903 [1] 167; J. pr. [2] 67, 47 C. 1903 [1] 723).

*16) Imid d. Citrakonsäure. Sm. 109° (C. 1903 [1] 838).

21) polym. Cyanmethylencarbonsäureäthylester. Sm. 122° (Am. 30, 122°) C5H4NCl8 C_5H_5ON $C_5H_5O_2N$ 463 C. 1904 [1] 378). 3) Verbindung (aus β-Brom-α-Keto-β-Buten-αγ-Dicarbonsäure). Sm. 95°
 (R. 23, 149 C. 1904 [2] 193). $C_5H_5O_3Br$ 11) Nitril d. α-Nitro-β-Acetoximidopropionsaure. Sm. 87—88° (Am. 29, $C_5H_5O_4N_8$ 265 C. 1903 [1] 958). C 34,3 — H 2,8 — O 54,9 — N 8,0 — M. G. 175. $C_5H_5O_6N$ 1) α -Methylester d. α -Nitroäthen- $\alpha\beta$ -Dicarbonsäure (α -M. d. Nitromaleïnsäure). K (Am. 32, 233 C. 1904 [2] 1141).
2) 4-Chlor-2-Methyl-1, 3-Diazin. Sm. 59—60°; Sd. 168°₇₆₈. HCl (B. 37, 3641 C. 1904 [2] 1416). $C_5H_5N_2Cl$ 1) 6-Amido-2-Merkaptopurin + H₂O (A. 331, 84 C. 1904 [1] 1200).
10) 4-Keto-2-Methyl-3,4-Dihydro-1,3-Diazin + 1'/₂H₂O. Sm. 212° (wasserfrei). (2HCl, PtCl₄) (B. 37, 3640 C. 1904 [2] 1416).
*5) 2,4-Diketo-5-Methyl-1,2,3,4-Tetrahydro-1,3-Diazin (Thymin). Sm. 326° (Am. 29, 437 C. 1903 [1] 1309; H. 39, 134 C. 1903 [2] 581).
*11) 4-Methylpyrzol-3[5]-Carbonsäure. Sm. 218—220° (B. 36, 1132 C. 1903 [1] 1309; H. 39, 134 C. 1903 [2] 1309; H. 39, 134 C. 1903 [2] 1309; H. 39, 134 C. 1903 [3] 1309; H. 39, 134 C $C_5H_5N_5S$ C,HON, $C_5H_6O_2N_2$ **1903** [1] 1139). 13) 4-Acetyl-5-Methyl-1,2,3-Oxdiazol. Fl. (A. 325, 139 C. 1903 [1] 644). 14) 1-Methylpyrazol-3-Carbonsäure. Sm. 222° (Soc. 83, 469 C. 1903 1] 931, 1143). *1) Dimethylparabansäure. Sm. 149—150° (A. 327, 261 C. 1903 [2] 349). *5) 2,4,6-Triketo-5-Methylhexahydro-1,3-Diazin. Sm. 202—203°. Na + 5H₂O (D.R.P. 146948 C. 1904 [1] 68; A. 335, 355 C. 1904 [2] 1381). $C_5H_6O_3N_9$ 20) 2,4-Diketo-1-Acetyltetrahydroimidazol + H₂0. Sm. 143—144° (A. 327, 374 C. 1903 [2] 661; A. 333, 130 C. 1904 [2] 895).
*3) Pseudoharnsäure. K + $2\,\mathrm{H}_2\mathrm{O}$ (A. 333, 79 C. 1904 [2] 826). $C_5H_6O_4N_4$ 5) Methylenester d. Chloressigsäure. Sm. 52-53° (C. r. 136, 1566 C. C5H6O4Cl2 1903 [2] 342). 1) 4,5-Dibrom-1,3-Dimethylpyrazol. Sm. 74° (Soc. 83, 469 C. 1903

 $C_5H_6N_2Br_2$

[1] 931, 1143).

*4) 3,5-Dimethylisoxazol (B. 36, 220 C. 1903 [1] 522).

(Soc. 83 466 C. 1903 [1] 931, 1143).

2) 2,4[oder 2,5-]-Dibrom-1,4[oder 1,5]-Dimethylimidazol. Sm. 127°

 $C_5H_6N_2Br_2$

C,H,ON

6) Anhydrodiacetylguanidin. Sm. 210—212°. HCl+H₂O, (2HCl, PtCl₄), C5H7ON3 HBr + H₂O, Mg, Ag (Ar. 241, 451 C. 1903 [2] 988).
7) 4-Nitroso-3,5-Dimethylpyrazol. Sm. 128° (A. 325, 193 C. 1903 [1] 8) Methyläther d. 2-Amido-4-Oxy-1,3-Diazin. Sm. 118,5—120°; Sd. 274°, 4. (2HCl, PtCl₄) (B. 36, 3382 C. 1903 [2] 1193). 9) 4-Amido-2-Keto-5-Methyl-1,2-Dihydro-1,3-Diazin(5-Methyleytosin). Sm. 270°. $HCl + 2H_2O$, $5 + 3HCl + H_2O$, Pikrat (Am. 31, 599) C. 1904 [2] 242). 10) 2-Amido-4-Keto-5-Methyl-3, 4-Dihydro-1, 3-Diazin. Sm. 320-321°. $HCl, (2HCl, PtCl_4 + 4H_2O), H_2SO_4, Pikrat (Am. 32, 135 C. 1904 [2])$ *4) Nitril d. α-Acetoxylpropionsäure. Sd. 172-173°, (B. 37, 3974) C5H7O2N C. 1904 [2] 1605). *9) Methylimid d. Bernsteinsäure. Sm. 66-67° (C. 1903 [1] 841).
12) Nitril d. Propionoxylessigsäure. Sd. 188-189°, 50 (C. 1904 [2] 1377).
12) 4-Nitro-3, 5-Dimethylpyrazol. Sm. 124-126° (A. 325, 193 C. 1903 $C_5H_7O_2N_3$ [1] 647). 13) Methyläther d. 6-Imido-2-Oxy-4-Keto-3,4,5,6-Tetrahydro-1,3-Diazin. Sm. $228-229^{\circ}$ (D.R.P. 155732 C. 1904 [2] 1631). 9) β -Brom- β -Buten- α -Carbonsäure. Sm. 54° (A. 331, 138 C. 1904 [1] 932). C₅H₇O₂Br 10) Aethylester d. P-Bromakrylsäure (M. 25, 784 C. 1904 [2] 1122). $C_5H_7O_3N_8$ *9) 5-Methylamido-2,4,6-Triketohexahydro-1,3-Diazin (A. 333, 64 C. 1904 [2] 772).
5-Amido-2, 4, 6-Triketo-5-Methylhexahydro-1, 3-Diazin. Sm. 2376
U. Zers. (A. 335, 359 C. 1904 [2] 1382). 2) 1-Ureido-5-Methyl-1-Triazol-4-Carbonsäure. Zers. bci 205° (A. 325, C5H7O8N5 161 C. 1903 [1] 645). 6) Acetat d. γ -Chlor- β -Keto- α -Oxypropan. Sd. 108—109 $^{\circ}_{12}$ (C. 1904) C5H7O3Cl 1] 576). 7) Chlorid d. *u*-Acetoxylpropionsäure. Sd. 56°_{11} (150°₇₆₀) (B. 36, 468 C. 1903 [1] 626; B. 37, 3973 C. 1904 [2] 1605). 4) 1-Nitro-2, 4-Diketo-3-Aethyltetrahydroimidazol. Sm. 95-96°(A. 327, C₅H₇O₄N₈ 379 C. 1903 [2] 662). *4) Citrabrombrenzweinsäure (B. 35, 4370 C. 1903 [1] 281). $C_5H_7O_4Br$ C₅H₇O₅N *5) Dimethylester d. Oximidomethandicarbonsäure. Sm. 67°; Sd. 168°, c. Na (C. r. 137, 198 C. 1903 [2] 659). C,H,O,N *1) Dimethylester d. Nitromalonsäure. Dimethylaminsalz (B. 37, 1783 C. 1904 [1] 1483). 2) β-Nitro-α-Acetoxylpropionsäure. Sm. 90-91°. Ag (Am. 32, 239)C. 1904 [2] 1141). 3) Pyridinjodamid (C. r. 136, 1471 C. 1903 [2] 296).
*2) 5-Keto-3,4-Dimethyl-4,5-Dihydropyrazol. Sm. C5H7N2J C5H6ON2 Sm. 256° (268°) (Bl. [3] 27, 1103 C. 1903 [1] 227; B. 37, 2834 C. 1904 [2] 642). 11) 2-Oxy-4[oder 5]-Aethylimidazol. Sm. 166—167 (B. 37, 2478 C. 1904 [2] 419). 12) Nitril d. α-Acetylamidopropionsäure. Sm. 102° (Bl. [3] 29, 1193 C. 1904 [1] 361). $C_5H_8O_2N_2$ 19) 2,4-Diketo-3-Aethyltetrahydroimidazol. Sm. 102° (A. 327, 378 C. 1903 [2] 662). 20) 3,6-Diketo-2-Methylhexahydro-1,4-Diazin (Methyldiacipiperazin). Sm. 238—239° u. Zers. (B. 36, 2113 C. 1903 [2] 345).
21) Methylester d. α-Diazobuttersäure. Sd. 54—56°₁₂ (B. 37, 1275 C. 1904). [1] 1334). 22) Aethylester d. α -Diazopropionsäure. Sd. 65-68 $^{\circ}_{41}$ (B. 37, 1269 C. 1904 [1] 1334).

9) 1-Oxy-4-[a-Oximidoäthyl]-5-Methyl-1,2,3-Triazol. Zers. bci 213°
(A. 325, 168 C. 1903 [1] 645).

2) 3,5-Diurcidopyrazol (B. 37, 3525 C. 1904 [2] 1314). C5H8O2N4 $C_5H_8O_2N_6$ 3) 5-Oxy-4-[a-Semicarbazonäthyl]-1,2,3-Triazol. Sm. 2010 u. Zers. (A. 325, 156 C. 1903 [1] 644).

 $C_5H_8O_2Br_2$ *3) $\beta\gamma$ -Dibrombutan - α - Carbonsäure. Sm. 65 - 65,5° (A. 331, 140 C. **1904** [1] 933). 13) $\alpha \delta$ -Dibrombutan- α -Carbonsäure. Sd. 171—174₁₈₋₁₅ (B. 37, 2843 C. 1904 [2] 643). 6) $\gamma \delta$ -Dioximido- β -Ketopentan. Sm. 128° u. Zers. (A. 325, 194 C. 1903 C₅H₈O₈N₂ 1 647). 7) Aethylester d. β -Oxy- α -Diazopropionsäure (B. 37, 1278 C. 1904 [1] 1335). *2) 5-Ureïdo-2,4-Diketo-3-Methyltetrahydroimidazol + H.O. Sm. $C_5H_8O_8N_4$ 219-221° (A. 333, 138 C. 1904 [2] 896). 6) β -Amid d. β -Amidoäthan- $\alpha\alpha\beta$ -Tricarbonsäure. Sm. 1200 (A. 332, $C_5H_8O_5N_9$ C5H8O8N4 *1) Uroxansäure. 153 C. 1904 [2] 897). 6) 2-Merkapto-4[oder 5]-Aethylimidazol. Sm. noch nicht bei 265° (B. $C_5H_8N_2S$ 37, 2476 C. 1904 [2] 419).

1) Methylenäther d. Di[Methylimidomerkaptomethyl]disulfid. Sm. 118° (B. 36, 2270 C. 1903 [2] 563). $C_5H_8N_2S_4$ 1) Methyläther d. 4,6-Diamido-2-Merkapto-1,3-Diazin. Sm. 185-1860 C5H8N4S (Am. 32, 349 C. 1904 [2] 1414). C5HON *6) Oximido-R-Pentamethylen (C. 1903 [1] 828). *7) α-Oximidoäthyl-R-Trimethylen. Sm. 50-55°. HCl (B. 36, 1380). 26) polym. γ-Nitroso-β-Methyl-β-Buten. Sm. 145° (B. 37, 543 C. 1904 1] 865). 6) 5-Imido-2-Keto-4,4-Dimethyltetrahydroimidazol + H₂O. Sm. 230° $C_5H_9ON_3$ u. Zers. (wasserfrei) (B. 36, 1292 C. 1903 [1] 1255). 7) Amid d. 5-Methyl-4, 5-Dihydropyrazol-1-Carbonsäure. Sm. 1980 (A. 335, 222 C. 1904 [2] 1203). Verbindung (aus d. Verb. $C_5H_9N_4$). Sm. 140° u. Zers. (B. 36, 1298 C. 1903 [1] 1256). *4) γ-Oximido-β-Ketopentan. Sm. 58-59° (Soc. 83, 43 C. 1903 [1] 442). *19) r-Tetrahydropyrrol-2-Carbonsäure. Sm. 203-203,5° (207°). Cu + 2 H₂O, HCl, (HCl, AuCl₃) (A. 326, 104 C. 1903 [1] 842; H. 39, 89 C. 1903 [2] 580; H. 39, 157 C. 1903 [2] 580). 23) Säure (aus Gelatine). Cu + H₂O (H. 41, 99 C. 1904 [1] 1015). $C_5H_9O_2N$ 4) Diacetylguanidin. Sm. 152°. Acetat (Ar. 241, 464 C. 1903 [2] 988) $C_5H_9O_2N_8$ 5) 5-Imido-2-Keto-3-Oxy-4,4-Dimethyltetrahydroimidazol. Sm. 230°
 u. Zers. HCl (B. 34, 1875; B. 36, 1286 C. 1903 [1] 1254). 6) 3,5-Dioxy-6,6-Dimethyl-1,6-Dihydro-1,2,4-Triazin. Sm. 230° (Am. **28**, 402 *C*. **1903** [1] 91). 7) cis- α -Guanidylpropen- β -Carbonsäure. Sm. 319—320° (Am. 32, 140) C. 1904 [2] 957). 8) trans- α -Guanidylpropen- β -Carbonsäure. Sm. 329—332° (Am. 32, 138 C. 1904 [2] 956). *8) Aethylester d. i-α-Chlorpropionsäure. Sd. 145-146° (B. 37, 1272) C₅H₉O₂Cl C. 1904 [1] 1334). *19) β -Chlorpropylester d. Essigsäure. Sd. 152—153°₇₅₀ (C. 1903 [2] 486; R. 22, 209 C. 1903 [2] 22). 19) α -Brom- β -Methylpropan- β -Carbonsäure. Sm. 40,5—41°; Sd. 143 $C_5H_9O_2Br$ bis 145° 33 (Bl. [3] 31, 155 C. 1904 [1] 868). *5) Aethylester d. \(\beta - Jodpropions\text{\text{aure}} \) (J. \(pr. \) [2] 68, 345 \(C. \) 1903 [2] $C_5H_9O_9J$ $C_5H_9O_8N$ *2) α-Oximidovaleriansäure. Sm. 155° u. Zers. (Bl. [3] 31, 1073 C. 1904 [2] 1457). *19) α-Acetylamidopropionsäure. Sm. 137,5° (B. 36, 2114 C. 1903 [2] 346). *21) α-Oximidoisovaleriansäure. Sm. 171—172° u. Zers. (Bl. [3] 31, 1072 C. 1904 [2] 1457). *22) P-Oxytetrahydropyrrol-2-Carbonsäure (H. 39, 157 C. 1903 [2] 580). *2) Di[Methylamid] d. Oximidomalonsäure. Sm. 157°. K, Fe (Soc. 83, $C_5H_9O_3N_8$ 33 °C. 1903 [1] 73, 441; Soc. 83, 21 °C. 1903 [1] 77, 448).

*4) Amid d. Oximidomalonäthyläthersäure. Sm. 150,5-151,50 (M. 25,

74, 81 *C.* 1904 [1] 1552).

6) Methylester d. α-Semicarbazonpropionsäure. Sm. 208° (Am. 28, C5H9O8N3 398 C. 1903 [1] 90). *2) d-Glutaminsäure. Zn $+ 2 H_2 O$ (H. 38, 114 C. 1903 [1] 1423; C. 1903

C,HOO,N [2] 792, 1054).

*11) N-Aethylester d. Amidomethancarbonsäure-N-Carbonsäure (Carb-

äthoxylglycin). Sm. 75° (B. 36, 2108 C. 1903 [2] 345). 24) Aethylester d. α-Nitropropionsäure. Sd. 190-195° (C. 1903 [2] 343).

25) Methyläthylester d. Stickstoffdicarbonsäure. Sm. 730; Sd. 117-1240, (B. 37, 3673 C. 1904 [2] 1494). 26) α-Amid d. β-Oxypropan-αβ-Dicarbonsäure. Sm. 139—141° (B. 35, 4370 C. 1903 [1] 281).

27) α-Amid d. γ-Oxypropan-αβ-Dicarbonsäure (β-Itamalaminsäure). Sm. 118—120°. NH₄, Ag (B. 35, 4376 C. 1903 [1] 281).
28) Methylmonamid d. d-Weinsäure. Methylaminsalz (Soc. 83, 1360)

C. 1904 [1] 84). 5) Aethylester d. Nitrosoureïdoessigsäure. Sm. 66-67° (A. 327, 367

C5H9O4N8 C. 1903 [2] 660). $C_5H_9O_6N_8$

2) βγβ-Trinitro-β-Methylbutan. Sm. 189—190° (C. 1903 [1] 625).
*9) d-sec. Butylsenföl. Sd. 159° (B. 36, 584 C. 1903 [1] 696).
11) l-sec. Butylsenföl. Sd. 159° (B. 36, 584 C. 1903 [1] 696).
12) Allylamid d. Thioessigsäure. Sd. 135—136°₁₇ (B. 37, 877 C. 1904). C,H,NS

[1] 1004).

CsHaNsS 4) α -Methyl- β -[α -Cyanäthyl] thioharnstoff. Fl. (Bl. [3] 29, 1194 C. 1904

*4) Porphyrexin. (2, 4-Diimido-1-Oxy-5, 5-Dimethyltetrahydroimidazol) C₅H₁₀ON₄ (B. 36, 1284 C. 1903 [1] 1254).

5) Verbindung (aus Porphyrexin). Sm. 160° u. Zers. Na $+4H_2O$ (B. 36, 1297 C. 1903 [1] 1256).

*4) $\beta\delta$ -Dioximidopentan. Sm. 14 B. 37, 3316 C. 1904 [2] 1026). Sm. 149—150° (B. 36, 220 C. 1903 [1] 521; $C_5H_{10}O_2N_2$

*14) Amid d. Propan- $\beta\beta$ -Dicarbonsäure. Sm. 263° (Soc. 83, 1241 C. 1903 [2] 1421).

*16) Di[Methylamid] d. Malonsäure. Sm. 135° (Soc. 83, 33 C. 1903

γ-Oximido-β-Semicarbazonbutan. Sm. 303° u. Zers. (Bl. [3] 31, 1165 C5H10O2N4 C. 1904 [2] 1700).

6) Methyläthyläther d. $\beta\beta$ -Dichlor- $\alpha\alpha$ -Dioxyäthan. C,H,O,Cl, Sd. 173—175° (G. 33 [2] 415 C. 1904 [1] 922).

*7) Aethylester d. Aethylnitrosamidoameisensäure. Sd. 69-70% (B. 36, $C_5H_{10}O_3N_2$ 2478 C. 1903 [2] 550; B. 36, 3635 C. 1903 [2] 1331; B. 36, 4295 C. 1904 [1] 507).

*17) Aethylester d. Ureïdoessigsäure. Sm. 135 (A. 327, 366 C. 1903 [2] 660). *18) Trimethyläthylennitrosit (B. 35, 4120 C. 1903 | 1 | 278; B. 36, 1765 C. 1903 [2] 100).

20) α-Amidoacetylamidopropionsäure. Sm. 227° u. Zers. (B. 37, 2491 C. 1904 [2] 424).

21) Aethylester d. Amidooxymethylamidoameisenmethyläthersäure (O-Methylcarbäthoxyisoharnstoff). Sm. 5°. HCl (C. 1904 [2] 29).

22) Aethylester d. α-Acetylhydrazin-β-Carbonsäure. Sm. 90°(P. Gutmann, Dissert., Heidelberg 1903).

23) Amid d. Amidoessigsäure-N-Carbonsäureäthylester (Carbäthoxylglycinamid). Sm. 101-103,5° (B. 36, 2109 C. 1903 [2] 345).

4) Amid d. Ureidoacetylamidoessigsäure (α-Carbanidoglycylglycinamid). C5H10O8N4 Sm. 210° u. Zers. (B. 36, 2098 C. 1903 [1] 1304).

5) isom. Amid d. Ureidoacetylamidoessigsäure (β-Carbamidoglycyl-

glycinamid). Sm. 246° u. Zers. (B. 36, 2098 C. 1903 [1] 1304).

C₅H₁₀O₄N₂ *10) Trimethyläthylennitrosat (B. 36, 1765 C. 1903 [2] 100).

11) βγ-Dinitro-β-Methylbutan. Sd. 105—110°_{0.012} (C. 1903 [1] 625).

12) ?-Diamidopropan-αγ-Dicarbonsäure. Sm. 238° (B. 37, 1596 C. 1904 [1] 1449; H. 42, 282 C. 1904 [2] 958).

13) Dimethylester d. Methylendi [Amidoameisensäure]. Sm. 125° (B. 36,

2207 C. 1903 [2] 423).
7) Methyläther d. Allylamidoimidomerkaptomethan. IICl, Pikrat $C_5H_{10}N_2S$ (Suc. 83, 556 C. 1903 [1] 1123).

*1) Dimethylformcarbothialdin (C. r. 136, 452 C. 1903 [1] 699). $C_5H_{10}N_2S_2$ 5) isom. Carbothialdin (C. r. 136, 452 C. 1903 [1] 699). 6) Pentamethylendiamindisulfin (C. r. 136, 452 C. 1903 [1] 699). *1) Diäthyläther d. Dibromdimerkaptomethan. Sm. 68° u. Sm. 68° u. Zers. $C_5H_{10}Br_2S_2$ (C. 1903 [1] 19). *21) β-Nitroso-β-Methylbutan. Sm. 50—50,5° (B. 36, 693 C. 1903 [1] 817). C_5H_1,ON *21) β-Nitroso-β-Methylbutan. Sm. 50—50,5° (B. 36, 695 C. 1903 [1] 817).
 27) α-Oximidopentan. Sm. 52° (C. r. 138, 698 C. 1904 [1] 1066).
 28) Piperidin-N-Oxyd (Aldehyd d. δ-Amidovaleriansäure?). Sm. 39°; Sd. 110—111° 55. HCl (B. 25, 2781; 26, 2991; 31, 1560; 32, 2513; Bl. [3] 19, 616; B. 37, 3229 C. 1904 [2] 1152). — I, 949; *I, 480.
 29) Amid d. i-Butan-β-Carbonsäure. Sm. 112°; Sd. 230° 745 (M. 25, 1097) C. 1004 [2] 1200. C. 1904 [2] 1698). 30) Isobutylamid d. Ameisensäure. Sd. 111° (B. 36, 2475 C. 1903 [2] 559). 3) α -Semicarbazonbutan. Sm. 126° (Bl. [3] 31, 305 C. 1904 [1] 1133). 9) δ -Chlor- α -Oxypentan? Sd. 70—80°₁₂ (M. 24, 353 C. 1903 [2] 551). *2) β -Nitro- β -Methylbutan. Sd. 149—150° (C. 1903 [1] 625; B. 36, 694 C5H11ON3 C₅H₁₁OCl $C_5H_{11}O_2N$ C. **1903** [1] 817). *5) Nitrit d. δ -Oxy- β -Methylbutan (*C. r.* 136, 1564 *C.* 1903 [2] 339). *9) α -Amidovaleriansäure. Sm. 281—282° (*H.* 40, 566 *C.* 1904 [1] 591). *16) α -Aethylamidopropionsäure (*Bl.* [3] 29, 1200 *C.* 1904 [1] 354; *C.* 1904 [2] 945). *18) Trimethylamidoessigsäure (Betaïn). (HJ, J_5) (C. 1903 [2] 24; 1904 [2] 950). *26) Aethylester d. Aethylamidoameisensäure. Sd. 74—75°₁₄ (B. 36, 2476 C. 1903 [2] 559). *28) Isobutylester d. Amidoameisensäure. Sm. 64-65° (B. 36, 2475 C. 1903 [2] 559). 46) isom. Amidovaleriansäure (aus Pankreas) (H. 41, 395 C. 1904 [2] 137). 47) Methylester d. α-Amidobuttersäure. HCl (B. 37, 1274 C. 1904 [1] 1334). 8) 4-Ureidomorpholin. Sm. 218° u. Zers. (B. 35, 4477 C. 1903 [1] 404). $\mathbf{C}_{5}\mathbf{H}_{11}\mathbf{O}_{2}\mathbf{N}_{3}$ *1) α -Aethyläther d. γ -Chlor- $\alpha\beta$ -Dioxypropan. Sd. 85-88 $^{\circ}_{30}$ (A. 335, $C_5H_{11}O_2C1$ 240 C. 1904 [2] 1204). *5) Nitrat d. δ-Oxy-β-Methylbutan. Sd. 147—148° (C. r. 136, 1563 C. 1903 [2] 338). $C_5H_{11}O_8N$ 18) 3-Keto-2-[3,4-Dioxybenzyliden]-2,3-Dihydroindol (C. 1903 [1] 34). 19) Amidooxyvaleriansäure + H₂Q. Sm. 125° (C. 1904 [1] 260).
 4) α-Semicarbazidoisobuttersäure. Sm. 194° u. Zers. (Am. 28, 401 C. $C_5H_{11}O_8N_3$ **1903** [1] 90). 5) Methylester d. α-Semicarbazidopropionsäure. Sm. 100° (Am. 28, 398 C. 1903 [1] 90). C5H11NS2 *1) Dimethyläther d. Aethylimidodimerkaptomethan (C. r. 136, 452 C. 1903 [1] 699). *4) Diäthylamidodithioameisensäure. Diäthylaminsaz (B. 37, 3235 C. 1904 [2] 1153).
*6) Aethylester d. Dimethylamidodithioameisensäure (C. r. 136, 452) C. 1903 [1] 699). 7) Diäthyläther d. Imidodimerkaptomethan. Sm. 33°. HJ (C. 1903) [1] 19; C. r. 135, 976 C. 1903 [1] 139; Bl. [3] 29, 54 C. 1903 [1] 446). C5H11N3S 2) α -Amido- α -Methyl- β -Allylthioharnstoff. Sm. 57° (B. 37, 2321 \acute{C} . 1904 [2] 311). 17) d-sec. Butylharnstoff. Sm. 166° (Ar. 242, 69 C. 1904 [1] 999). $C_5H_{12}ON_2$ $\mathbf{C}_5\mathbf{H}_{12}\mathbf{O}_2\mathbf{N}_2$ *6) \mathbf{r} - α δ -Diamidovaleriansäure (C. 1903 [2] 35). 10) $\gamma \delta$ -Diamidovaleriansäure. (2HCl, PtCl_s) (\dot{C} . 1904 [1] 260). 11) Aethylester d. αβ-Diamidopropionsäure. 2HCl (B. 37, 1278 C. 1904 [1] 1335). *5) d- β -Methylbútylschwefelsäure. Ba $+ 2 \, \mathrm{H}_2\mathrm{O}$ (B. 37, 1041 C. 1904) $C_5H_{12}O_4S$ [1] 1248). 6) P-Oxy- β -Methylbutan-P-Sulfonsäure. Ba $+ 2 \text{H}_2\text{O}$ (C. 1903 [2] 1164). 7) Aethylisopropylester d. Schwefelsäure. Sd. 105° 15 (Am. 30, 220 C. **1903** [2] 937). *1) s-Chlor-α-Amidopentan. HCl, (2HCl, PtCl₄) (B. 37, 2918 C. 1904 C5H12NCl [2] 1237).

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C5H5NBrJ

 $C_5H_8ON_2S$

11) d-sec. Butylthioharnstoff. Sm. 137° (Ar. 242, 59 C. 1904 H. 1995). $C_5H_{12}N_2S$ 16) β -Hydroxylamido- β -Methylbutan (tert. Amylhydroxylamin) (13. 36. C,H,ON 692 *C*. **1903** [1] 817). 5) Säure (aus Methylpropylketon). Fl. Pb (C. r. 136, 509 C. 1903 [1 753]. 6) Säure (aus Diäthylketon). Fl. Pb (C. r. 137, 124 C. 1903 [2] 553). C5H13O3P C 39,7 — H 8,6 — O 42,4 — N 9,3 — M. G. 151.

1) ε-Amido - αβγδ-Tetraoxypentan (Arabinamin). Sm. 98 —99". HCl. C,H,,O,N (2HCl, PtCl.), HJ, Pikrat, Oxalat (C. r. 136, 1079 (), 1903 1 130); C. 1904 [1] 579). 2) isom. s-Amido-αβγδ-Tetraoxypentan (Xylamin). Fl. H(!, HJ tt. r. 136, 1081 C. 1903 [1] 1305; C. 1904 [1] 579). *1) a-Oxyisoamylphosphinsäure. Sm. 1916 (C. r. 136, 48 C. 1903 | 439). C, H, O, P 5) Oxyphosphinsäure (aus d. Säure C₅H₁₈O₉P). Sm. 108" (C. r. 137. 124 C. 1903 [2] 554). 6) Säure (aus Acetaldehyd). Sm. 132° (C. r. 138, 1709 C. 1904 |2, 42%, 7) Säure (aus d. Säure C₅H₁₃O₃P). Sm. 139—140° (C. r. 138, 500 C. 1903 [1] 773). C₈H₁₈NBr₂ *1) Trimethyl-β-Bromäthylammoniumbromid. Sm. 230-231 * B. 36, 2902 C. 1903 [2] 986). C,H,,NP, 1) Verbindung (aus Piperidin u. Phosphorwasserstoff) (B. 36, 4205 (J. 1904) [1] 247). *1) Methyldiäthylsulfinchlorid (J. pr. [2] 66, 454 (J. 1903 [1] 561). C 44,8 — H 10,4 — O 23,9 — N 20,9 — M. C. 134.

1) Sepsin. H₂SO₄ (C. 1904 [2] 119). $C_5H_{18}ClS$ C5H14O2N3 C.H.ANJ *1) Trimethyläthylammoniumnonajodid. Sm. 67° (J. nr. 2 67. 31' O. 1903 [1| 1297). *1) Cholin (H. 39, 162 C. 1903 [2] 591; H. 39, 526 C. 1903 [2] 1254; A. 330, 374 C. 1904 [1] 870). C5H15O2N - 5 IV -C,H,ONCI, 3) 2,3,5-Trichlor-4-Oxypyridin. Sm.216-217 (Soc. 83, 40) (1,1903) [1] 1141). C5H2O4NC1 1) Chlorid d. P-Nitrofuran-2-Carbonsäure. Sm. 38" (C. r. 137, 520) 1903 [2] 1069). C5H8ONCI 3) Methylimid d. Dichlormaleïnsäure. Sm. 86" (G. 34 1; 25") C. 1904 [2] 120; G. 34 [1] 489 C. 1904 [2] 453). *2) 3,4-Dibrompyrrol-2-Carbonsäure + H₂O. Sm. 110" (158" w. 1880) C,H,O,NBr, frei) (B. 37, 2800 C. 1904 [2] 533). $C_5H_9NCl_9Br$ 1) 2, 3, 5-Trichlor-4-Brom-1-Methylpyrrol. Sm. 120° (7. 34 1 15) C. 1904 [2] 452). 1) Methyläther d. 2,6-Dichlor-4-Oxy-1,3-Diazin. Sm. 51" (B. 36. C5H4ON,CL 2234 C. 1903 [2] 449; B. 36, 3381 C. 1903 [2] 1192)

1) Amid d. 3,4-Dibrompyrrol-2-Carbonsäure -- II₂(). Sm. 155 C5H4ON2Br9 $+ C_2 H_4 O_2$ (B. 37, 2799 C. 1904 |2| 533). $C_5H_4ON_4S$ 2) 2-Thiocarbonyl-6-Ketopurin. (A. 331, 77 C. 1904 1 1200). 2) Methylimid d. Chlormaleïnsäure. Sm. 79° (G. 34 [1] 258 C. 1904 C.H.O.NCI $C_5H_4O_9N_4S$ *1) 8-Merkapto-2,6-Diketopurin (D.R.P. 141974 C. 1903 2 79; D.R.P. 142468 C. 1903 [2] 80). 1) Methyläther d. 4,6-Dichlor-2-Merkapto-1,3-Diazin. Sm. 11 C₅H₄N₂Cl₂S bis 42°; Sd. 135—136°₁₄ (Am. 32, 346 C. 1904 [2] 1414). C5H5ON3S2 1) Formylchrysean. Zers. oberh. 210° (B. 36, 3547 C. 1903 2: 1379). C5H5O3NS *1) Pyridin-3-Sulfonsäure (M. 24, 203 C. 1903 [2] 48: C. 1904 2 4545. 1) 2-Methyläther d. 5-Oximido-2-Merkapto-4, 6-Diketo-3, 4, 5, 6- $C_5H_5O_8N_8S$ Tetrahydro-1, 3-Diazin. Zers. bei 180-200° (Am. 32, 350 € 1904 $C_5H_5O_3N_2Br$ 1) 5-Brom-2, 4, 6-Triketo-5-Methylhexahydro-1, 3-Diazin. Sm.192.5 (A. 335, 359 C. 1904 [2] 1382).

1) Pyridinbromojodid. Sm. 115-117°. HBr (C. r. 136, 1471 C. 1903

5) 4- oder 5-Acetylamidothiazol. Sm. 162° (B. 36, 3550 C. 1903

$C_5H_6ON_2S$	6) 4-Acetyl-5-Methyl-1,2,3-Thiodiazol. Fl. + HgCl ₂ (A. 325, 175 C. 1903 [1] 646).
	7) Methyläther d. 2-Merkapto-4-Keto-3,4-Dihydro-1,3-Diazin. Sm. 198—199° (Am. 29, 483 C. 1903 [1] 1309.)
$\mathbf{C}_5\mathbf{H}_6\mathbf{ON_3Cl}$	1) Methyläther d. 6-Chlor-2-Amido-4-Oxy-1,3-Diazin. Sm. 168 bis 169 (B. 36, 3381 C. 1903 [2] 1192).
$\mathbf{C_5H_6O_2NBr}$	*2) Aethylester d. Bromeyanessigsäure. Sd. 195—200°, (Am. 30, 466 C. 1904 [1] 378).
$\mathbf{C}_5\mathbf{H}_6\mathbf{O}_2\mathbf{N}_2\mathbf{S}$	6) 2-Thiocarbonyl-4, 6-Diketo-5-Methylhexahydro-1, 3-Diazin +
	H ₂ O. Sm. 244° (Am. 32, 352 C. 1904 [2] 1414). 7) Methyläther d. 2-Merkapto-4,6-Diketo-3,4,5,6-Tetrahydro-1,3-Diazin. Sm. noch nicht bei 300° (Am. 32, 345 C. 1904 [2] 1413).
$\mathbf{C_5H_6O_2N_2S_2}$	1) Aethylester d. Isorhodanformylamidothioameisensäure (Hemithiourethan). Sm. 141—142° (Sov. 83, 87 C. 1903 [1] 230, 447).
$\mathbf{C}_5\mathbf{H}_6\mathbf{O}_2\mathbf{N}_8\mathbf{Cl}$	1) Dimethyläther d. 6-Chlor-2,4-Dioxy-1,3,5-Triazin. Sm. 81°
$\mathbf{C}_{5}\mathbf{H}_{6}\mathbf{O}_{2}\mathbf{N}_{4}\mathbf{S}$	(B. 36, 3195 C. 1903 [2] 956). 1) 5-Formylamido-6-Amido-2-Thiocarbonyl-4-Keto-1,2,3,4-Tetrahydro-1,3-Diazin $+$ H ₂ O. Na $+$ 2H ₂ O (A. 331, 76 C. 1904 [1]
$\mathbf{C_5H_8O_3N_4S}$	 1200). *3) γ-Thiopseudoharnsäure. (5-Thioureïdo-2,4,6 Triketohexahydro-1,3-Diazin) (D. R. P. 141974 C. 1903 [2] 80).
$\mathbf{C_5H_6O_6NBr}$	1) Dimethylester d. Bromnitromalonsäure. Sd. 133 ° ₁₆ (B. 37, 1779 C. 1904 [1] 1483).
$C_5H_8N_8C1S$	1) Methyläther d. 6-Chlor-4-Amido-2-Merkapto-1, 3-Diazin. Sm. 127—128° (Am. 32, 347 C. 1904 [2] 1414).
$\mathbf{C}_{5}\mathbf{H}_{7}\mathbf{ONS}_{2}$	2) 2-Thiocarbonyl-4-Keto-3-Aethyltetrahydrothiazol. Fl. (M. 25, 173 C. 1904 [1] 895).
$C_5H_7ON_3S$	3) $4-[\alpha-Oximido3^{+}hv!]-5-Methyl-1,2,3-Thiodiazol. Sm. 127° (4.325, 176 C. 1903)$
$\mathbf{C}_{\scriptscriptstyle{5}}\mathbf{H}_{\scriptscriptstyle{7}}\mathbf{ON}_{\scriptscriptstyle{4}}\mathbf{Cl}_{\scriptscriptstyle{2}}$	*1) Dichlorporphyrexid. Sm. 116° u. Zers. (B. 36, 1290 C. 1908 [1] 1255).
$C_5H_7ON_5S$	1) $\frac{1}{4}$, $\frac{1}{6}$ -Diamido - 5-Formylamido - 2-Merkapto - 1, $\frac{1}{3}$ -Diazin + $\frac{1}{4}$, $\frac{1}{6}$ -Diazin + $\frac{1}{4}$ 0 ($\frac{1}{6}$. 1904 [1] 1200).
$\mathbf{C_5H_7OClBr_2}$	 Chlorid d. αδ-Dibrombutan-α-Carbonsäure. Sd. 122—127°₁₃₋₁₅ (B. 37, 2843 C. 1904 [2] 643).
$\mathbf{C}_5\mathbf{H}_7\mathbf{O}_2\mathbf{N}_3\mathbf{S}$	 Methyläther d. 5-Amido-2-Merkapto-4, 6-Diketo-3, 4, 5, 6-Tetrahydro-1, 3-Diazin. Sm. noch nicht bei 301° (Am. 32, 351 C. 1904 [2] 1414).
	6) 2,4-Dimethyläther d. 6-Merkapto-2,4-Dioxy-1,3,5-Triazin. Sm. 134° (u. 194°) (B. 36, 3196 C. 1903 [2] 956).
$\mathbf{C}_5\mathbf{H}_7\mathbf{O}_2\mathbf{N}_8\mathbf{S}\mathbf{e}$	1) α -Selencyanpropionylharnstoff. Sm. 136° (Ar. 241, 196 C. 1903 [2] 103).
	2) α-Methyl-β-Selencyanacetylharnstoff. Sm. 148-149° u. Zers. (A. r. 241, 190 C. 1903 [2] 103).
$\mathbf{C_5H_7O_8NBr_2}$	 αβ-Dibrompropionylamidoessigsäure. Sm. 147—148° (B. 37, 2509 C. 1904 [2] 427).
$\mathbf{C}_{5}\mathbf{H}_{8}\mathbf{ON}_{2}\mathbf{S}$	*5) 2-Thiocarbonyl-4-Keto-1,3-Dimethyltetrahydroimidazol. Sm. 94,5° (Bl. [3] 29, 1199 C. 1904 [1] 354).
	*6) 2-Thiocarbonyl-5-Keto-1,4-Dimethyltetrahydroimidazol. Sm. 168—169° (Bl. [3] 29, 1194 C. 1904 [1] 361).
C,H8ON,Cl	*1) Chlorporphyrexid (B. 36, 1291 C. 1903 [1] 1255). 2) isom. Chlorporphyrexid. Sm. 151,5° (B. 36, 1289 C. 1903 [1] 1255).
$\mathbf{C}_5\mathbf{H}_8\mathbf{O}_8\mathbf{NCl}$	*1) Aethylester d. Chloracetylamidoameisensäure. Sm. 180° (B. 36, 745 C. 1903 [1] 827).
	2) α-Chloracetylamidopropionsäure. Sm. 125—127° (B. 37, 2490
	 C. 1904 [2] 424). Chlorid d. Amidoessigsäure-N-Carbonsäureäthylester (Carbäthoxylglycinchlorid). Fl. (B. 36, 2109 C. 1903 [2] 345).
$\mathbf{C}_5\mathbf{H}_8\mathbf{N}_8\mathbf{J}\mathbf{S}_2$	1) Jodmethylat d. Chrysean. Zers. bei 180° (B. 36, 3546 C. 1903 [2] 1378).
$\mathbf{C}_5\mathbf{H}_0\mathbf{ONCl}_2$	1) $\beta \gamma$ -Dichlor- γ -Nitroso- β -Methylbutan. Sm. 119—120° (B. 37, 543 C. 1904 [1] 865).

$\mathbf{C}_5\mathbf{H}_9\mathbf{ONS}_2$	*1) Aethylester d. Acetylamidodithioameisensäure. Sm. 123° (Bl. [3] 29, 51 C. 1903 [1] 446). 3) Methylester d. Acetylmethylamidodithioameisensäure. Sd. 156
	bis 158 ₃₂ (Bl. [3] 29 , 60 C. 190 3 [1] 447).
$C_5H_9ON_3S$	2) 5-Imido-2-Thiocarbonyl-3-Oxy-4, 4-Dimethyltetrahydroimid- azol. Sm. 231° u. Zers. (B. 34, 1877; B. 36, 1289 C. 1903 [1] 1255).
$C_5H_9O_2NF_2$.	1) Aethylester d. $\beta\beta$ -Difluoräthylamidoameisensäure. Sm. 37,6°; Sd. 184—185,5° (C. 1904 [2] 945).
$\mathbf{C}_5\mathbf{H}_9\mathbf{O_4N_2Br}$	1) Nitrat d. γ -Brom- γ -Nitroso- β -Oxy- β -Methylbutan (B. 36, 1771 C. 1903 [2] 101).
$\mathbf{C_5H_9O_5N_2Br}$	 Nitrat d. γ-Brom-γ-Nitro-β-Oxy-β-Methylbutan. Sm. 226° u. Zers. 36, 1772 C. 1903 [2] 101).
$\mathbf{C}_{5}\mathbf{H}_{10}\mathbf{ONCl}$	*3) Chlorid d. Diäthylamidoameisensäure. Sd. 187—190° (Bl. [3] 31, 689 C. 1904 [2] 198).
$\mathbf{C}_{_{5}}\mathbf{H}_{_{10}}\mathbf{ONBr}$	3) β -Brom- γ -Nitroso- β -Methylbutan. Fl. (B. 37, 536 C. 1904 [1] 864). 4) β -Brom- γ -Oximido- β -Methylbutan. Sm. 78—79° (B. 37, 539
$\mathbf{C}_{5}\mathbf{H}_{10}\mathbf{O}_{2}\mathbf{N}_{2}\mathbf{S}$	C. 1904 [1] 864). 3) Aethylester d. Thioureïdoessigsäure. Sm. 65° (A. 327, 371
$\mathbf{C_5H_{10}NCl_2P}$	C. 1903 [2] 660). *1) 1-Piperidyldichlorphosphin. Sd. 94-95° ₁₀ (A. 326, 157 C. 1903).
$C_5H_{11}OCSl_2$	[1] 761). *1) Methyloxydiäthylendisulfinchlorid (J. pr. [2] 66, 464 C. 1903 [1] 561).
$C_5H_{11}O_2CIS$	*1) Methyläthylthetinchlorid. + 6HgCl ₂ (J. pr. [2] 66, 465 C. 1903 [1] 561).
$\mathbf{C_5H_{11}NCl_2S}$	1) Amylmonamid d. Thiophosphorsäuredichlorid. Sd. 140° ₁₈ (A. 326, 205 C. 1903 [1] 821).
$\mathbf{C}_{5}\mathbf{H}_{12}\mathbf{NCl_{2}P}$	1) Amylamidodichlorphosphin. Sd. 101% (A. 325, 150 C. 1903)
$\mathbf{C_5H_{18}ON_2J}$	1) Jodmethylat d. 4-Amidomorpholin. Sm. 170—171° (B. 35, 4477 C. 1903 [1] 404).
$C_5H_{18}O_8NS$	4) α -Diäthylamidomethan- α -Sulfonsäure. Na (B. 37, 4087 C. 1904 [2] 1724).
C ₅ H ₁₄ ONCl	*1) Cholinchlorid. 2 + PtCl ₄ , + AuCl ₃ (B. 36, 2903 C. 1903 [2] 986). *2) Methyläther d. Oxytetramethylammoniumchlorid. 2 + PtCl ₄ (A. 334, 12 C. 1904 [2] 947).
$\mathrm{C_{5}H_{14}ONBr}$	*1) Cholinbromid (B. 36, 2903 C. 1903 [2] 986). 2) Trimethyl-\(\beta\)-Bromäthylammoniumhydroxyd. Bromid, Pikrat (B. 36, 2902 C. 1903 [2] 986).
	— 5 V —
$\mathbf{C_5H_8O_2NClBr}$	1) Methylimid d. Chlorbrommaleïnsäure. Sm. 103° (G. 34 [1] 487 C. 1904 [2] 452).
C5H4O5NCIS	1) 3-Amid d. 5-Chlorfuran-2-Carbonsäure-3-Sulfonsäure. Sm. 194-195°. K, Ca + 6H ₂ O, Ba + 3H ₂ O, Pb + H ₂ O, Ag (Am. 32, 209 C. 1904 [2] 1140).
$C_5H_4O_5NBrS$	1) 3-Amid d. 5-Bromfuran-2-Carbonsäure-3-Sulfonsäure. Sm. 190—191°. K $+$ H ₂ O, Ba $+$ 3H ₂ O, Pb $+$ 2H ₂ O, Ag $+$ 1½ H ₂ O
$C_5H_5O_4N_2ClS$	(Am. 32, 222 C. 1904 [2] 1140). 1) Diamid d. 5-Chlorfuran-2-Carbonsäure-3-Sulfonsäure. Sm. 2120 (Am. 32, 206 C. 1904 [2] 1139).
$C_5H_5O_4N_2BrS$	1) Diamid d. 5-Bromfuran-2-Carbonsäure-3-Sulfonsäure. Sm. 219—220° (Am. 32, 219 C. 1904 [2] 1140).
$C_5H_8O_8NBrS$	1) Amid d. 5-Brom-2-Methylfuran-4-Sulfonsäure. Sm. 123° (Am. 32, 199 C. 1904 [2] 1139).
$\mathbf{C}_{5}\mathbf{H}_{10}\mathbf{ONCl}_{2}\mathbf{P}$	1) Dichlorid d. 1-Piperidylphosphinsäure. Sd. 257° (A. 326, 186 C. 1903 [1] 820).
$\mathrm{C_5H_{10}NCl_2SP}$	1) Dichlorid d. 1-Piperidylthiophosphinsäure. Sd. 146-149 (A. 326, 213 C. 1903 [1] 822).
C ₅ H ₁₂ ONCl ₂ P	(A. 326, 213 C. 1903 [1] 822). 1) Amylmonamid d. Phosphorsäuredichlorid. Sd. 159° ₁₇ (A. 326, 174 C. 1903 [1] 819).

Ca-Gruppe.

- *2) 1,2-Dihydrobenzol. Sd. 81,5° (A. 328, 105 C. 1903 [2] 244; C. 1904 [2] 440; Soc. 85, 1417 C. 1904 [2] 1736). C,H,
 - *3) 1,4-Dihydrobenzol. Sd. 81,5° (4. 328, 107 C. 1903 [2] 244). *9) Diallyl (C. 1903 [2] 339).
- $\mathbf{C}_{\mathsf{R}}\mathbf{H}_{\mathsf{10}}$ *1) Hexachlorbenzol (C. 1903 [1] 870). CaCla

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- $C_6H_2Br_4$ *1) 1,2,3,5-Tetrabrombenzol. Sm. 98° (A. 330, 55 C. 1904 [1] 1142).
- *2) 1,4-Benzochinon (G. 33 [1] 164). $\mathbf{C}_{3}\mathbf{H}_{4}\mathbf{O}_{3}$
 - 5) Säure (auz p-Kresol). = $(C_0H_4O_2)_x$. Sm. noch nicht bei 320° (B. 36, 2032 C. 1903 [2] 360).
- *4) β_{γ} -Anhydrid d. Propen- $\alpha\beta_{\gamma}$ -Tricarbonsäure (Akonitanhydridsäure). Sm. 76° (B. 37, 3968 C. 1904 [2] 1604). *2) 1,3-Dijodbenzol. Sm. 38° (B. 37, 1301 C. 1904 [1] 1339). CaH,Os
- C.H.J.
- *1) Chlorbenzol. Sd. 131—132° (C. r. 135, 1121 C. 1903 [1] 283; B. 36, C,H,Ci
- CaH.Na
- 1280 C. 1903 [1] 1218).

 1) Natriumphenyl (Am. 29, 589 C. 1903 [2] 195).

 *1) Oxybenzol. + H₃PO₄ (Sm. 61-69°) (R. 21, 354 C. 1903 [1] 151; J. pr. [2] 68, 486 C. 1904 [1] 444). C,H,O
- C,H,O, *2) 1,2-Dioxybenzol (B. 35, 4324 C. 1903 [1] 285; J. pr. [2] 68, 486 C. 1904 [1] 444).
 - *4) 1,4-Dioxybenzol. $+ H_3PO_4$ (R. 21, 355 C. 1903 [1] 151; J. pr. [2] 68, 486 C. 1904 [1] 444)
- $C_aH_6O_8$
- *3) 1,3,5-Trioxybenzol (Ar. 242, 462 C. 1904 [2] 783).
 *5) Maltol (Larixinsaure). Sm. 159° (A. 123, 191; B. 36, 3407 C. 1903 [2] 1280).
 - *16) Anhydrid d. β-Buten-βγ-Dicarbonsäure (B. 37, 1614 C. 1904 [1] 1402). *18) Aldehyd d. 4-Oxy-2-Methylfuran-5-Carbonsäure (B. 37, 303 C. 1904
 - 1] 648). 20) 2-Methylfuran-3-Carbonsäure. Sm. 102-103° (C. 1904 [1] 956).
 - 21) Methylester d. Isobrenzschleimsäure. Sm. 60°; Sd. 130-135° (C. r. 137, 992 *O.* 1904 [1] 291).
- *8) 2-Oxymethylfuran-5-Carbonsäure. Sm. 165—167° (B. 36, 2590 C. 1903 C.H.O. [2] 618).
 - 16) 1, 2, 3, 4-Tetraoxybenzol (Apionol). Sm. 161 ° (B. 37, 119 C. 1904 [1] 586).
 - 17) $\alpha \gamma$ -Lakton d. γ -Oxy- α -Buten- $\alpha \beta$ -Dicarbonsäure. Sm. 159,5—160°. Ca, Ba (A. 381, 141 C. 1904 [1] 933).
- *9) αγ-Lakton d. α-Keto-γ-Oxybutan-αγ-Dicarbonsäure. Na + NaHSO₃ + 7 H₂O (*R.* 21, 153 *C.* 1904 [2] 194).
 10) Pentaoxybenzol (*C.* 1903 [2] 830; *B.* 37, 122 *C.* 1904 [1] 586). CAHAO.

 - 11) d-2,5-Dihydrofuran-2,5-Dicarbonsäure + H₂O. Sm. 144° (wasserfrei). Ba + 1½ H₂O, Pb + 2 H₂O (B. 37, 2539 C. 1904 [2] 530).
 12) 1-2,5-Dihydrofuran-2,5-Dicarbonsäure + H₂O. Sm. 144° (wasserfrei). Ba + 1½ H₂O, Pb + 2 H₂O (B. 37, 2539 C. 1904 [2] 531).
 13) αγ-Lakton d. βγ-Dioxypropen-αα-Dicarbonsäuremonomethylester
 (The property of the property of

 - (Tetron-α-Carbonsäuremethylester). Sm. 171-173° u. Zers. NH4, Methylaminsalz (B. 36, 469 C. 1903 [1] 626).
 *6) Akonitsäure. Sm. 155—166° (A. 327, 237 C. 1903 [1] 1406)
- $C_6H_6O_6$
 - *9) cis-R-Trimethylen-1, 2, 3-Tricarbonsäure. Ag. (J. pr. [2] 68, 166 C. 1903 [2] 760).
 - *10) trans-R-Trimethylen-1,2,3-Tricarbonsäure. Sm. 218—219° (B. 36,
- CaHaOa
- 10) trans-R-Trimethylen-I, 2, 3-Tricarbonsäure. Sm. 218—219° (B. 36, 3509 C. 1903 [2] 1274; B. 36, 3781 C. 1904 [1] 42).
 22) r-Diformaltraubensäure (R. 21, 374 C. 1903 [1] 138). C 32,4 H 2,7 O 64,9 M. G. 222.
 1) Benzoltriozonid (Ozobenzol). Zers. bei 50° (C. r. 76, 572; B. 14, 975; A. 170, 123; Bl. [3] 13, 940; B. 37, 3431 C. 1904 [2] 1111). *II, 17.
 3) 1,4-Diimido-I,4-Dihydrobenzol. Zers. bei 50—60°. 2 HCl, HBr (Am. 31, 218 C. 1904 [1] 1073; B. 37, 1499 C. 1904 [1] 1413; B. 37, 2912 C. 1904 [2] 1459) $C_6H_6N_2$
 - [2] 1458).
 4) Verbindung (aus 1,4-Diamidobenzol) = (C₆H₆N₂)_n. Sm. 230—231° (238 bis 238,5 u. Zers.; 242—243°) (M. 10, 124; B. 27, 480; B. 37, 1506 C. 1904 [1] 1414; B. 37, 2907 C. 1904 [2] 1458). IV, 595.

1) 3,5-Dichlor-1,2-Dihydrobenzol. Sd. 88-90° (Soc. 83, 501 C. 1903) CaHaCla [1] 1028, 1352).

1) 3,5-Dibrom-1,2-Dihydrobenzol? Sm. 104,5° (Soc. 83, 502 C. 1903 [1] CaHaBra 1028, 1352).

*1) Merkaptobenzol (Bl. [3] 29, 692 C. 1903 [2] 565; Bl. [3] 29, 762 C. 1903 [2] 620; Am. 31, 572 C. 1904 [2] 98; B. 37, 3274 C. 1904 [2] 1295).
*1) Selenobenzol. Sd. 182° (Bl. [3] 29, 763 C. 1903 [2] 620).
*1) Anilin (A. 327, 108 C. 1903 [1] 1213). CaHaS

CaHaSe

 C_6H_7N *2) 2-Methylpyridin. Sd. 128,8° 760 (C. 1903 [1] 399; Am. 29, 3 C. 1903

[1] 524). *3) 3-Methylpyridin. Sd. 143,4°₇₈₀ (*Am.* 29, 4 C. 1903 [1] 524). *4) 4-Methylpyridin. Sd. 143,1°₇₈₀ (*Am.* 29, 6 C. 1903 [1] 524). *8) Sorbinsäure. K, Ba (C. 1903 [2] 556).

 $C_8H_8O_2$

*10) α -Pentin- α -Carbonsäure. Sm. 25°; Sd. 126—127°₂₄ (C. r. 136, 553 C. 1903 [1] 824).

20) 2-Ketó-1-Oxymethylen-R-Pentamethylen. Sm. 72—73°; Sd. 80—110°₄₀ (A. 329, 114 C. 1903 [2] 1322).

21) γ-Methyl-α-Butin-α-Carbonsaure. Sm.36—38°; Sd. 114—115° 18 (C. r. 136, 553 C. 1903 [1] 824).

*9) α -Buten- $\alpha\beta$ -Dicarbonsäure. Sm. 194—196° (A. 331, 123 C. 1904 [1] $C_6H_8O_4$ 932; B. 37, 2384 C. 1904 [2] 306).

*10) α-Buten-αβ-Dicorbonsäure. Sm. 100 (J. pr. [2] 68, 160 C. 1903 [2] 759).
*16) β-Buten-αβ-Dicarbonsäure. Sm. 166—167° (A. 330, 307 C. 1904 [1] 927; B. 37, 2384 C. 1904 [2] 306).
**17) β-Trian - δ Dicorbonsäure. Δα (See 85 613 C. 1904 [1] 1553)

*17) β -Buten- $\alpha\delta$ -Dicarbonsäure. Ag. (Soc. 85, 613 C. 1904 [1] 1553). *30) $\alpha\gamma$ -Lakton d. γ -Oxybutan- $\alpha\beta$ -Dicarbonsäure. Sm. 78—79° (A. 330, 312 C. 1904 [1] 927).

*48) α -Buten- $\beta\delta$ -Dicarbonsäure. Sm. 133,5° (130—131°). Ba + 2H₂O (M. 11, 513; B. 36, 1202 C. 1903 [1] 1175).

49) cis-1-Methyl-R-Trimethylen-2,3-Dicarbonsäure. Sm. 108° (B. 36, 1087 C. 1903 [1] 1126).

50) trans-1-Methyl-R-Trimethylen-2, 3-Dicarbonsäure. Fl. $Ag_2 + \frac{1}{2}H_2O$ (J. pr. [2] 68, 159 C. 1903 [2] 759).

51) $\alpha \gamma$ -Lakton d. α -Oxybutan- $\beta \gamma$ -Dicarbonsäure. Sm. 104°. Zn (B. 37, 1613 C. 1904 [1] 1402).

52) Aethylester d. $\alpha\beta$ -Diketobuttersäure. Sd. 70°₁₈. + ½H₂O (Sm. 120°) (C. r. 138, 1222 C. 1904 [2] 27).

53) \(\beta \)-Ketopropylester d. Brenztraubensäure. Sm. 152—153° (C. 1904) [2] 302).

CaHaOa *2) Tricarballylsäure (C. r. 136, 1332 C. 1903 [2] 107; J. pr. [2] 68, 165 C. 1903 [2] 760).

*5) Parabrenztraubensäure. Ba (R. 21, 299 C. 1903 [1] 17). *10) Metabrenztraubensäure. Ba (R. 21, 302 C. 1903 [1] 17).

13) Lakton d. Parasaccharonsäure. (Parasaccharon). Sm. 159—160° (B. 37, 3613 C. 1904 [2] 1454).

*2) Citronensäure. Rb₂ (C. 1903 [1] 810; C. r. 135, 1352 C. 1908 [1] 320; B. 36, 3599 C. 1903 [2] 1317). CaHaO,

*1) $\alpha\beta$ -Dioxypropan- $\alpha\beta\gamma$ -Tricarbonsäure + H₂O. Sm. 159-160°. K₂ + $C_8H_8O_8$ $4 H_2 O$, $Ca_3 + 4 H_2 O$, $Ca_3 + 18 H_2 O$, $Cu_3 + 2 H_2 O$ (B. 37, 3614 C. 1904) [2] 1454).

*3) 1,4-Diamidobenzol (B. 36, 3827 C. 1904 [1] 19; B. 37, 2776 C. 1904 [2] 773; B. 37, 2906 C. 1904 [2] 1458).
*4) Phenylhydrazin (B. 35, 4178 C. 1903 [1] 144; C. r. 137, 330 C. 1903 $C_8H_8N_2$

[2] 716).

17) Pyrazol (aus 2-Semicarbazon-1-Oxymethylen-R-Pentamethylen). Sm. 57—59° (A. **329**, 116 *C.* **1903** [2] 1322). 18) 3,6-Dimethyl-1,2-Diazin.

Śm. 24—33°. HCl, (HCl, AuCl₈), (2HCl, AuCl₃) (B. 36, 503 C. 1903 [1] 654). 2) isom. Tetrachlorhexahydrobenzol. Sm. 173° (C. r. 137, 242 C. 1903 $C_{\alpha}H_{\alpha}Cl_{\alpha}$

[2] 665). 3) isom. Tetrachlorhexahydrobenzol. Sd. 170,5—172,5% (C. r. 137, 242) C. 1903 [2] 665).

 $C_{\mathbf{A}}\mathbf{H}_{\mathbf{A}}\mathbf{Br}_{\mathbf{2}}$ 7) 1,4-Dibrom-1, 2, 3, 4-Tetrahydrobenzol. Sm. 108° (C. 1904 [2] 440; Soc. 85, 1412 *C.* 1904 [2] 1736).

- $\mathbf{C_6H_8Br_2}$ 8) P-Dibrom-1,2,3,4-Tetrahydrobenzol. Sm. 116—117° $_{29}$ (C. 1904 [2] 440). *7) Nitril d. $\alpha\alpha'$ -Imidodipropionsäure (Bl. [3] 29, 1180 C. 1904 [1] 353). C₆H₉N₈
 - 11) Di[Cyanmethyl]äthylamin. (Nitril d. Aethylimidodiessigsäure). Sm. 141% HCl (B. 37, 4092 C. 1904 [2] 1725).
- 2) 1,3,5-Trichlorhexahydrobenzol? Sm, 66; Sd. 233 ₇₄₅ (C. r. 137, 242 C. C₆H₉Cl₈
 - 1903 [2] 665). 3) isom. Trichlorhexahydrobenzol. Sd. 221°₇₄₅ u. Zers. (C. r. 137, 242 C. 1903 [2] 665).
 - 4) isom. Trichlorhexahydrobenzol. Sd. 226° 145 u. Zers. (C. r. 137, 242 C. 1903 [2] 665).
- 1) 1-Brom-1, 2, 3, 4-Tetrahydrobenzol. Sd. 74°₂₈ (Soc. 85, 1422 C. 1904) C₆H₉Br [2] 1736).
- $C_6H_{10}O$ *6) δ -Keto- β -Methyl- β -Penten (M. 24, 770 C. 1904 [1] 158).
 - *7) R-Ketohexamethylen. Sd. 161° (C. r. 137, 1026 C. 1904 [1] 280).
 - *8) 2-Keto-1-Methyl-R-Pentamethylen. Sd. 140-141 (A. 331, 322 C. 1904
 - [1] 1567). 17) Hexahydrobenzol-1,2-Oxyd. Sd. $131,5^{\circ}_{780}$ (C. r. 137, 62 C. 1903 [2]
- $C_6H_{10}O_2$ *10) α -Penten- α -Carbonsäure (A. 334, 207 C. 1904 [2] 884).
 *12) α -Penten- ϵ -Carbonsäure. Sd. 203° (B. 37, 1999 C. 1904 [2] 23; A. 334, 208 C. 1904 [2] 884).

 - *13) β-Penten-α-Carbonsäure (A. 334, 207 C. 1904 [2] 884). *14) β-Penten-β-Carbonsäure. Sm. 24—25°, Sd. 213° (M. 24, 156 C. 1903 [1] 956; B. 37, 1617 C. 1904 [1] 1403; A. 334, 206 C. 1904 [2] 884).
 - *15) β -Penten- γ -Carbonsäure. (α -Aethylcrotonsäure). Ca + 5H₂O (A. 334, 104 C. 1904 [2] 888).
 - *16) β-Penten-ε-Carbonsäure (B. 37, 1999 C. 1904 [2] 23; A. 334, 208 C. 1904 [2] 884).
 - *19) Brenzterebinsäure. Sd. 110-111022 (C. r. 136, 1464 C. 1903 [2] 282; C. r. 139, 293 C. 1904 [2] 692).
 - *30) Lakton d. γ-Oxyisocapronsäure. Sd. 202—203° (C. r. 136, 1464 C. 1903 [2] 282; C. r. 139, 293 C. 1904 [2] 692).
 *52) γ-Methyl-α-Buten-γ-Carbonsäure. Ca + 5H₂O (C. r. 139, 293 C. 1904
 - [2] 692).

 - 55) α -Penten- δ -Carbonsäure (A. 334, 207 C. 1904 [2] 884). 56) β -Penten- δ -Carbonsäure. Sd. 198—199 $^{\circ}_{740}$. Ca (B. 37, 1617 C. 1904)
 - [1] 1403; A. 334, 206 C. 1904 [2] 884). 57) isom. β -Penten- γ -Carbonsäure (α -Aethylisocrotonsäure). Sd. 199,5 $^{\circ}_{750}$. Ca + 2H₂O (A. 334, 103 C. 1904 [2] 888). 58) Keton (aus d. Verb. $C_{0}H_{10}O_{2}$). Sd. 70—75 $^{\circ}_{15}$ (C. r. 137, 1205 C. 1904

 - 59) Lakton d. γ -Oxy- β -Methylvaleriansäure. Sd. 213° (Bl. [3] 29, 335 C.
 - 1903 [1] 1216). 60) Lakton d. δ -Oxy-?-Methylvaleriansäure. Sd. 104—108°_{18—14} (B. 36, 1205 C. 1903 [1] 1176).
 - 61) Lakton d. γ-Oxy-β-Aethylbuttersäure. Sd. 218—219° (B. 36, 1204
 - C. 1903 [1] 1176). 62) Lakton (aus β -Methylpropan- $\alpha\beta$ -Dicarbonsäurediäthylester). Sd. 201—202° (C. r. 138, 580 C. 1904 [1] 925).
 - 63) Verbindung (aus Epichlorhydrin u. Acetylacetonnatrium). Sd. 81—82°₁₅ (C. r. 137, 1204 C. 1904 [1] 356).
- C₆H₁₀O₃ *1) Glycerinäther (β-Akroleïnglycerin). Sd. 170—171° (A. 335, 224 C. 1904) [2] 1203).
 - *7) β -Ketopentan-s-Carbonsäure. Ag (A. 331, 324 C. 1904 [1] 1567). *11) α-Keto-ββ-Dimethylpropan-α-Carbonsaure. Sm. 82° (Å. 327, 205
 - C. 1903 [1] 1407). *26) Aetylester d. α-Ketopropan-α-Carbonsäure. Sd. 162°₇₆₀ (Bl. [3] 31,
 - 1149 C. 1904 [2] 1706).
 *28) Aethylester d. Acetessigsäure (B. 36, 1834 C. 1903 [2] 191; B. 37, 591
 C. 1904 [1] 867; B. 37, 3451 C. 1904 [2] 1274; B. 37, 3488 C. 1904 [2] 1288).
 - 41) $\alpha\beta$ -Aethylidenäther d. $\alpha\beta\gamma$ -Trioxypropan (α -Akroleinglycerin). $102-116^{\circ}_{17}$ (A. 335, 216 C. 1904 [2] 1202).
 - 42) Aether d. γ-Oxy-αβ-Propanoxyd (Diglycidäther). Sd. 103% (A. 335, 238
 C. 1904 [2] 1204).

C₆H₁₀O₈ 43) Peroxyd (aus Mesityloxyd) (B. 36, 1933 C. 1903 [2] 189). 44) δ-Oxy-β-Penten-ε-Carbonsäure. Fl. Ba (C. 1903 [2] 556).

45) 3-Oxy-1,1-Dimethyl-R-Trimethylen-2-Carbonsäure? Sm. 119-120° (Soc. 83, 858 C 1903 [2] 572).

46) δ -Keto- β -Methylbutan- δ -Carbonsäure. Sm. -1.5° ; Sd. 84 -85°_{15} (Bl. [3] 31, 1151 C. 1904 [2] 1707).

47) Lakton d. $\alpha\gamma$ -Dioxy- $\beta\beta$ -Dimethylpropan- α -Carbonsäure. Sm. 55° (M. 25, 48 C. 1904 [1] 717).

48) Isobutylester d. Glyoxylsäure. Sd. 75-80° [Bl. [3] 31, 681 C. 1904 [2] 195).

 ${f C_6 H_{10} O_4}^*10)$ Butan- $\alpha\delta$ -Dicarbonsäure (Bl. [3] 29, 1038 C. 1903 [2] 1424). *15) β -Methylpropan- $\alpha\beta$ -Dicarbonsäure. Sm. 140°. Ag₂ (A Ag_2 (A. 329, 91 C. 1903 [2] 1071).

*16) β -Methylpropan- $\alpha \gamma$ -Dicarbonsäure. Sm. 85–86°. Ag. (A. 329, 103) °C. **190**3 [2] 1071).

*29) Diäthylester d. Oxalsäure. + AlCl₃ (Soc. 85, 1107 C. 1904 [2] 976). 34) Dulcid. Sd. 198°₁₈ (C. r. 139, 637 C. 1904 [2] 1536). 35) Peroxyd d. Propionsäure. Fl. (Am. 29, 191 C. 1903 [1] 959). 36) isom. P-Monomethylester d. Propan- $\alpha\beta$ -Dicarbonsäure. Sd. 140°₁₁. Ag (Soc. 85, 542 C. 1904 [1] 1484).

Monomethylester d. Propan-ββ-Dicarbonsäure. Fl. (Soc. 83, 1240 C. 1903 [2] 1420).

C. 1903 [2] 1420).

C. H₁₀O₅ *9) Cellulose (C. 1904 [1] 1069).

*100) Parasaccharin (B. 37, 1196 C. 1904 [1] 1196).

104) Salepschleim (B. 36, 3200 C. 1903 [2] 1054).

105) α-Oxybutan-αβ-Dicarbonsäure. Sm. 108—109° (133—134°) (B. 35, 4372 C. 1903 [1] 281; B. 37, 2382 C. 1904 [2] 306).

106) α-Oxybutan-βγ-Dicarbonsäure. Ca (B. 37, 1614 C. 1904 [1] 1402).

107) Lakton d. Fukonsäure. Sm. 106—107° (B. 37, 308 C. 1904 [1] 649).

C₈H₁₀O₆ *7) 3,4-Dioxy-2-Oxymethyltetrahydrofuran-5-Carbonsäure (Chitarsäure).

 $Ca + 4H_2O$ (B. 35, 4016 C. 1903 [1] 391; B. 36, 2587 C. 1903 [2] 617). *19) Monoäthylester d. d-Weinsäure. K (Soc. 85, 1123 C. 1904 [2] 1206). 29) $i-\alpha\delta$ -Dioxybutan- $\alpha\delta$ -Dicarbonsäure. Sm. 132—134° (B. 37, 2092 C. 1904 [2] 23).

30) r-αδ-Dioxybutan-αδ-Dicarbonsäure. Sm. 173° (B. 37, 2092 C. 1904

31) isom. 3,4-Dioxy-2-Oxymethyltetrahydrofuran-5-Carbonsäure (Chiton-Fl. Ca + $2H_2O$ (B. 27, 139; B. 36, 2587 C. 1903 [2] 617). -*I, 426.

32) isom. Dimethylester d. d-Weinsäure. Sm. 61,5 ° (Soc. 85, 765 C. 1904 [2] 512).

*5) d-Glykuronsäure (H. 41, 243 C. 1904 [1] 1095). $C_6H_{10}O_7$

*7) Oxyglykonsäure. Ca + 3H₂O (C. 1904 [2] 1291). 10) Parasaccharonsäure. Ca + 5H₂O, Cu + H₂O (B. 37, 3613 C. 1904 [2] 1454).

 $C_6H_{10}O_8$ *1) Schleimsäure (C. 1903 [2] 712).

 $C_0H_{10}N_2^*12$) Nitril d. Hexahydropyridin-1-Carbonsäure. Sd. 122-124 $^{\circ}_{30}$ (Am. 29, 302 C. 1903 [1] 1165; B. 36, 1198 C. 1903 [1] 1215). 14) 1-Amido-2,5-Dimethylpyrrol. Sm. 52—53°; Sd. 198—204° (B. 35, 4316

C. 1903 [1] 336). $C_6H_{10}Cl_2$ *4) 1, 2-Dichlorhexahydrobenzol. Sd. 196 $^{\circ}_{760}$ u. Zers. (C. r. 137, 242) C. 1903 [2] 665).

*6) 1,4-Dichlorhexahydrobenzol. Sd. 189 $^{\circ}_{761}$ (C. r. 137, 241 C. 1903 [2] 665). C₀H₁₀Br₂*3) 1,2-Dibromhexahydrobenzol. Sd. 116 $^{\circ}_{20}$ (Soc. 85, 1414 C. 1904 [2] 1736). C₆H₁₀S₂*1) Diallyldisulfid. Sd. 77—82 $^{\circ}_{16}$ (B. 36, 2265 C. 1903 [2] 562). C₆H₁₁N *3) 1,5-Dimethyl-2,3-Dihydropyrrol (G. 33 [2] 317 C. 1904 [1] 292). C₆H₁₁Cl *7) Chlorhexahydrobenzol. Sd. 141,6—142,6° (C. r. 137, 241 C. 1903 [2] 664).

*3) δ -Oxy- δ -Methyl- α -Penten (C. 1903 [2] 1415). *13) Oxyhexahydrobenzol. Sm. 155,5° (Bl. [3] 29, 1052 C. 1903 [2] 1437; C.r. 137, 1026 C.1904 [1] 280; C.1904 [1] 727; C.r. 137, 1269 C.1904 [1] 454). *18) Hexan- α -Oxyd. Sd. 102—104° (M. 23, 1090 C. 1903 [1] 384). *24) γ -Ketohexan. Sd. 145—147° (C. 1903 [1] 1023; B. 36, 2715 C. 1903 27 987).

*28) Pinakolin (Bl. [3] 29, 597 C. 1903 [2] 396).

- C₈H₁₂O *34) Aldehyd d. Isobutylessigsäure (C. r. 137, 989 C. 1904 [1] 257).
- 43) Aldehyd d. Pentan-γ-Carbonsäure. Sd. 117-118° (C. r. 138, 91 C. 1904 [1] 505; Bl. [3] 31, 305 C. 1904 [1] 1133).

 C₆H₁₂O₂ *1) 1,2-Dioxyhexahydrobenzol (Bl. [3] 29, 234 C. 1903 [1] 970).

 *11) β-Oxy-δ-Keto-β-Methylpentan (M. 24, 767 C. 1904 [1] 1580.
- - *16) i- β -Methylbutan- α -Carbonsäure. Sd. 197—198 (D. R. P. 150880 C. 1904 [2] 70).
 - *18) β -Methylbutan- β -Carbonsäure. Sd. 186 $^{\circ}_{752}$ (A. 327, 210 C. 1903 [1] 1407).
 - *26) Methylester d. Isovaleriansäure (B. 37, 3659 C. 1904 (2) 1452).
 - 46) isom. 1,2-Dioxyhexahydrobenzol. Sm. 104°; Sd. 236°, (C. r. 136, 383 C. 1903 [1] 711; Bl. [3] 29, 231 C. 1903 [1] 970).
 - 47) Aethyläther d. α -Oxy- β -Ketobutan. Sd. 145—146° (C. r. 138, 91 C. 1904) [1] 505).
 - 48) Saure (aus Naphta) (C. 1903 [1] 1134).
- $C_8H_{19}O_3$ *11) γ-Oxyisocapronsäure (γ-Oxy-β-Methylbutan-δ-Carbonsäure). Sd. 173 bis 175 $^{\circ}_{48}$ (M. 24, 250 C. 1903 [2] 238). *21) β-Oxy-α-Aethylbuttersäure. Ca, Ba, Zn + H₂O (A. 334, 113 C. 1904 [2] 888).

 - *23) β-Oxy-αα-Dimethylbuttersäure (γ-Oxy-β-Methylbutan-β-Carbonsäure). Sd. 150°92 (M. 24, 248 C. 1903 [2] 237).
 *25) Diäthylglykolsäure (A. 334, 101 C. 1904 [2] 888).
 *33) Metaldehyd (Ph. Ch. 43, 132 C. 1903 [1] 1078).
 *34) Paraldehyd (Ph. Ch. 43, 133 C. 1903 [1] 1078).

 - *44) Propylester d. d-α-Oxypropionsäure. Sd. $61-63^{\circ}_{11-12}$ (C. 1903 [2] 1419).
 - *57) $\varepsilon \zeta$ -Dioxy- β -Ketohexan. Sd. 170—175°₁₈ (C. r. 137, 14 C. 1903 [2] 508). 61) γ -Oxy- β -Aethylbuttersäure. Ca + 2H₂O, Ba (B. 36, 1204 C. 1903 [1]
 - 1176). 62) α -Oxy- β -Methylbutan- β -Carbonsäure. Sm. 56°. K (Bl. [3] 31, 319
 - C. 1904 [1] 1134). 63) Aldehyd d. Dioxyessigdiäthyläthersäure. Sd. 80-90° (B. 36, 1935
 - C. 1903 [2] 189). 64) Methylester d. α -Oxy- β -Methylpropan- β -Carbonsäure. Sd. 177—1780,40
 - (Bl. [3] 31, 122 C. 1904 [1] 644).
 - 65) Aethylester d. β-Oxybuttersäure. Sd. 170° (B. 37, 1277 C. 1904 [1] 1335).
 - 66) Aethylester d. γ-Oxybuttersäure. Sd. 65-70°₁₁ (B. 37, 1277 C. 1904 [1] 1335).

 - 67) Propylester d. 1- α -Oxypropionsäure. Sd. $60-61^{\circ}_{.10-11}$ (C. 1903 [2] 1419). 68) Monacetat d. $\alpha\beta$ -Dioxy- β -Methylpropan. Sd. $122-125^{\circ}(125^{\circ}_{.760})$ (C. r. 137, \cdot 758 C. 1903 [2] 1415; Bl. [3] 31, 17 C. 1904 [1] 504).
- $C_{6}H_{12}O_{4}*10$) Hexerinsäure. Sm. 144,5—145°. Ca + 2H₂O (A. 334, 107 C. 1904) [2] 888).
 - 23) $\alpha \tilde{y}$ -Dioxy- $\beta \beta$ -Dimethylpropan- α -Carbonsäure. Ca + 3 H_2O , Ag + 8 H_2O (M. 25, 49 C. 1904 [1] 717).
- C₆H₁₂O₅ *6) Fukose (B. 37, 299 C. 1904 [1] 647; B. 37, 3859 C. 1904 [2] 1712). *16) Rhodeose. Sm. 144° (B. 37, 3859 C. 1904 [2] 1712). 17) 1-Quercit + H₂O. Sm. 174° (Soc. 85, 625 C. 1904 [2] 329). 18) r-Rhodeose. Sm. 161° (B. 37, 3860 C. 1904 [2] 1712).

- 10) r-knodeose. Sm. 101° (B. 37, 5000 C. 1904 [2] 1712).
 19) Isorhodeose (C. 1904 [1] 581).

 C₆H₁₂O₆ *7 d-Galaktose (B. 36, 4373 C. 1904 [1] 462).
 *14) d-Glykose (C. 1903 [1] 1019; A. 331, 359 C. 1904 [1] 1555).
 *28) d-Mannose (C. 1904 [1] 191).
 *30) i-Mannose (H. 37, 545 C. 1903 [1] 1217).

 - *55) polym. Trioxymethylen + H_2O (C. r. 138, 1227 C. 1904 [2] 22). *59) α -Glykose (Soc. 83, 1313 C. 1904 [1] 86).

 - *60) β -Glykose (Soc. 83, 1312 C. 1904 [1] 86). 70) Cocaose + H₂O. Sm. 89—90° (J. pr. [2] 66, 408 C. 1903 [1] 527). 51) Fukonsäure. K + 1½, H₂O, Ca + 5 H₂O, Ba, Sr (B. 37, 308 C. 1904) [1] 649).
- $C_8H_{12}N_2$ *9) Nitril d. Diäthylamidoessigsäure. Sd. 170° (B. 36, 4189 C. 1904 [1] 262; C. 1904 [2] 1377; B. 37, 4089 C. 1904 [2] 1724).

 $C_8H_{12}N_2$ 10) Aethylenyl- $\alpha\delta$ -Tetrametylendiamin. Sd. 220 $^{\circ}_{12}$. (2HCl, PtCl₄), Pikrat (B. 36, 338 C. 1903 [1] 703). 11) Nitril d. α-Dimethylamidoisobuttersäure. Sd. 152° (C. 1904 [2] 945). C₆H₁₂N₄ *1) Hexamethylentetramin. (HCl, AuCl₃) (C. 1903 [1] 439; A. 334, 56 C. 2) s-Aethylcarbylaminäthylguanidin. Sm. 90—91° (Bl. [3] 31, 610 C. 1904 C₈H₁₂Br₂*2) αe -Dibromhexan. Sd. 115—116° $(M. 23, 1089 \ C. 1903 \ [1] 384). *9) <math>\beta \gamma$ -Dibrom- $\beta \gamma$ -Dimethylbutan. Sm. 140° u. Zers. $(B. 37, 547 \ C. 1904)$ [1] 866). C₈H₁₂J₉ *1) α 5-Dijodhexan. Sm. 9,5°; Sd. 163°_{17.5} (C. r. 136, 244 C. 1903 [1] 583). C₈H₁₂S₃ *1) α -Trithioacetaldehyd. Sm. 101° (C. 1904 [2] 21). *2) β -Trithioacetaldehyd. Sm. 125—126° (C. 1904 [2] 21). 5) \(\gamma\) Trithioacetaldehyd. Sm. 76\(\cdot (C. 1904 [2] 21)\). C₈H₁₈N *6\(\) Amidohexahydrobenzol. Sd. 134\(\). HCl (C. r. 138, 457 C. 1904 [1] 884\). *12) I-Methylhexahydropyridin. HCl, (2 HCl, PtCl,), Pikrat (B. 37, 3234 C. 1904 [2] 1153).

*15) r-3-Methylhexahydropyridin. Bitartrat (B. 36, 1650 C. 1903 [2] 123).

21) α-Propylimidopropan. Sd. 101—102° (C. 1904 [2] 945].

22) Isobutylimidoäthan. Sd. 90—91° (C. 1904 [2] 945).

23) d-3-Methylhexahydropyridin. Bitartrat (B. 36, 1650 C. 1903 [2] 123).

24) 1-3-Methylhexahydropyridin. Bitartrat (B. 36, 1650 C. 1903 [2] 123).

*1) α-Οχγhεχαπ. Sd. 156° (C. τ. 138, 149 C. 1904 [1] 577).

*2) β-Οχγhεχαπ. Sd. 127° (C. τ. 137, 302 C. 1903 [2] 708).

*6) γ-Οχγ-β-Methylpentan. Sd. 112,5° (C. τ. 137, 302 C. 1903 [2] 708).

*10) γ-Οχγ-γ-Methylpentan. Sd. 121—123° του (C. 1903 [2] 1415; C. τ. 137, 758 C. 1903 [2] 1415; Bl. [3] 31, 17 C. 1904 [1] 504).

*12) γ-Οχγ-ββ-Dimethylputan (C. 1903 [2] 1415).

*19) Aethyläther d. β-Οχγ-β-Methylpropan. Sd. 67—68° (C. 1903 [1] 1119; C. 1904 [2] 1153). $C_gH_{14}O$ *19) Aethyläther d. β -Oxy- β -Methylpropan. Sd. 67—68° (C. 1903 [1] 1119; 1904 [1] 1065).

*20) Dipropyläther. Sd. 89–91° (G. 33 [2] 420 C. 1904 [1] 922).

*21) Diisopropyläther. Sd. 70–70,5° (C. 1904 [2] 18).

23) α -Oxy- $\beta\beta$ -Dimethylbutan. Sd. 135° (Bl. [3] 31, 749 C. 1904 [2] 303).

*21) α 5-Dioxyhexan (M. 23, 1091 C. 1903 [1] 384).

*2) α 5-Dioxyhexan. Sm. 42° (35°); Sd. 254° $_{767}$ (C. r. 136, 245 C. 1903 [1] 583; C. r. 137, 329 C. 1903 [2] 711).

*9) Pinakon (Bl. [3] 29, 597 C. 1903 [2] 396).

*10) Diäthyläther d. $\alpha\alpha$ -Dioxyäthan (B. 36, 188 C. 1904 [1] 638).

16) $\alpha\delta$ -Dioxy- $\beta\beta$ -Dimethylbutan. Sd. 123° $_{10}$ (C. r. 137, 329 C. 1903 [2] 710).

1904 [1] 1401). 18) Aethyläther d. αβ-Dioxy-β-Methylpropan. Sd. 129° (C. r. 138, 91 C. 1904 [1] 504; Bl. [3] 31, 302 C. 1904 [1] 1133).

C₆H₁₄O₃*12) Diäthyläther d. Di[Oxymethyl]äther. Sd. 140° (C. r. 138, 1704 C. 1904) C₆H₁₄O₅ 3) Di[β_7 -Dioxypropyl] äther. Sd. 261—262°₂₇ (A. 335, 239 C. 1904 [2] 1204). C₆H₁₄O₆ *2) d-Idit (C. 1904 [2] 1291). *4) Mannit (B. 37, 299 C. 1904 [1] 647). C₈H₁₄N₂ *3) 1,4-Diamidohexahydrobenzol. H₃PO₄ (A. 328, 107 C. 1903 [2] 244). *5) 1,4-Dimethylhexahydro-1,4-Diazin. Sd. 131—132°₇₅₂. (2HCl, PtCl₄), (2HCl, 2AuCl₃), Pikrat (B. 37, 3516 C. 1904 [2] 1324). 20) \$\xi\$-Diamido-\alpha-Hexen. Sd. 185—190°. 2HCl, (2HCl, PtCl₄), Oxalat (C. 1904 [2] 1024). 21) 1-Amido-3-Methylhexahydropyridin. Sd. 160—165° (C. 1903 [1] 1034). 22) 1-Amido-4-Methylhexahydropyridin. Sd. 160—165° (C. 1903 [1] 1034). 23) Verbindung (aus $\alpha\delta$ -Diamidobutan u. Formaldehyd). Sd. 180—181 $^{\circ}_{20}$ (\dot{B} . 25) Verbindung (aus αυ-Diamidobutan u. Formaidenyu). Su. 100—101 20 (D. 36, 37 C. 1903 [1] 502).

C₆H₁₅N *10) Dipropylamin. (2HCl, PtCl₄) (C. 1904 [1] 923).

*13) Triäthylamin. (HCl + 6HgCl₂) (J. pr. [2] 66, 471 C. 1903 [1] 561).

18) α-Isopropylamidopropan (Propylisopropylamin). (2HCl, PtCl₄) (C. 1904 [1] 992).

[1] 923).

C₆H₁₅N₈ *2) 1,3,5-T-imperium volundro-1,3,5-Triazin. Sd. 160—164°. HJ (D.R.P. 139394 f. 1603 [1.5]; A. 334, 226 C. 1904 [2] 899).

- 4) isom. 1,3,5-Trimethylhexahydro-1,3,5-Triazin. HJ, (HJ + CHJ_s), $C_6H_{15}N_8$
- Pikrat (A. 384, 228 C. 1904 [2] 900).

 C₆H₁₆N₂ *7) αβ-Di[Dimethylamido]äthan. Sd. 120—122 $^{\circ}_{745}$. 2HCl, Pikrat (B. 37, 3495 C. 1904 [2] 1319; B. 37, 3499 C. 1904 [2] 1321; B. 37, 3510 C. 1904 [2] 1322).
- C₆H₁₆Sn *1) Zinndimethyldiäthyl. Fl. (C. 1904 [1] 353). 2) Zinntrimethylpropyl. Sd. 129 ₇₆₄ (C. 1904 [1] 353).
- *1) Hexachlor-I-Keto-1,2-Dihydrobenzol. Sm. 106° (108—110°) (B. 37, 4008 C. 1904 [2] 1715; B. 37, 4021 C. 1904 [2] 1717). C,OCl,
- *1) Oktochlor-1-Keto-1, 2, 3, 4-Tetrahydrobenzol. Sm. 106-108° (B. 37, C₆OCl₈ 4021 C. 1904 [2] 1717).
- C₆O₂Cl₄ *2) 2,3,5,6-Tetrachlor-1,4-Benzochinon. Sm. 289° (292°) (C. 1903 [2] 550; B. 36, 4390 C. 1904 [1] 444; B. 37, 2623 C. 1904 [2] 484). C₆O₂Br₄ *1) 3,4,5,6-Tetrabrom-1,2-Benzochinon. + Toluol, + Acetophenon (Am.
- **31**, 90 *C*. **1904** [1] 802).

- 6 III -

- CaHOCla *1) Pentachloroxybenzol. Sm. 190-191°. NH4, Na, Ag (B. 37, 4017
- C. 1904 [2] 1716).
 *1) 2,2,3,4,4,5,6-Heptachlor-1-Keto-1,2,3,4-Tetrahydrobenzol. Sd. 95° (B. 37, 4006 C. 1904 [2] 1715).
 *1) 2,3,5-Trichlor-1,4-Benzochinon. Sm. 169—170° (B. 37, 4016 C. 1904). C, HOCL
- CaHOaCl [2] 1716).
- *1) 2,3,4,6-Tetrachlor-1-Oxybenzol. Sm. 69-70°; Sd. 150°₁₆. Na (B. C6H2OCl4 **37**, 4010 *C*. **1904** [2] 1715).
 - 4) 2,3,4,5-Tetrachlor-1-Oxybenzol. Sm. 67,5°; Sd. 190°40 (Bl. [3] 27, 1174 C. 1903 [1] 232).
- *3) 2, 3, 5, 6-Tetrachlor-1, 4-Dioxybenzol. Sm. 236° (J. pr. [2] 70, 33 C₆H₂O₂Cl₄ C. 1904 [2] 1234).
- *1) 2,5-Dibrom-1,4-Benzochinon. Sm. 188° (C. 1903 [2] 550) CaHaOaBra
- $C_0H_2N_4S_2$
- 1) Benzbithiodiazol (p-Phenylenbisdiazosulfid). Sm. 224—226° u. Zers. (Soc. 83, 1205 C. 1903 [2] 1328).

 *1) 1-Chlor-2,4,6-Tribrombenzol. Sm. 80—81° (90—91°) (C. r. 136, 242 C. 1903 [1] 570; Am. 31, 374 C. 1904 [1] 1408).

 2) 2,4,6-Trijod-1-Chlorbenzol. Sm. 125—126° (B. 36, 2071 C. 1903 CaHaClBra
- C,H,ClJ,
- [2] 358). C 38,1 H 1,6 O 8,4 N 51,8 M. G. 189. CaHaON7 1) Azid d. 1,2,9-Benzisotetrazol-5-Carbonsäure. Sm. 103—104° (B.
- **36**, 1116 *C.* **1903** [1] 1185). 3) 2,4,5-Trijod-1-Oxybenzol. Sm. 114° (C. r. 137, 1066 C. 1904[1] 266). $C_{\alpha}H_{\alpha}OJ_{\alpha}$ *3) 2,3,5-Trichlor-1-4-Dioxybenzol. Sm. 138° (B. 37, 4017 C. 1904 [2]
- $C_6H_8O_2Cl_8$ 3) 3-Chlor-1,2-Pyron-5-Carbonsäure. Sm. 187-189° (B. 37, 3830 C. CaHaO4Cl
- 1904 [2] 1614). *3) Pikrinsäure. Rb (C. 1903 [1] 810; 1903 [2] 565; Ph. Ch. 46, 827 $C_6H_8O_7N_8$
- C. 1904 [1] 508). CaH3O8N3
- *1) 2,4,6-Trinitro-1,3-Dioxybenzol. Sm. 175° (M. 25, 27 C. 1904 [1] 723).
 4) isom. Trinitrodioxybenzol. Sm. 163° (M. 25, 574 C. 1904 [2] 907).
- *1) 2,4,6-Trinitro-1,3,5-Trioxybenzol + H_2O . Sm. 160-1610 (Am. 32, $C_6H_8O_9N_8$ 173 *C.* **1904** [2] 950). *2) 2,3,4,6-Tetrabrom-1-Amidobenzol. Sm. 1150 (A. 330, 58 C. 1904
- C6H8NBr4
- *1) 2,4-Dichlor-1-Oxybenzol. Sm. 43° (B. 37, 4030 C. 1904 [2] 1718). CAHAOCI2 5) 3,4-Dichlor-1-Oxybenzol. Sm. 64-65°; Sd. 145-146° (D. R. P. 156333 C. 1904 [2] 1673).
- *1) 2,4-Dibrom-1-Oxybenzol. Sm. 34-35° (Soc. 85, 1227 C. 1904 [2] C.H.OBr. 204, 1032).
- CoH4OJ2
- *2) 2,6-Dibrom-1-Oxybenzol. Sm. 57-59° (A. 334, 177 C. 1904 [2] 834).
 *1) 2,4-Dijod-1-Oxybenzol. Sm. 72° (C. r. 139, 65 C. 1904 [2] 590).
 6) 3,4-Dijod-1-Oxybenzol. Sm. 83° (C. r. 136, 1078 C. 1903 [1] 1339).
 7) 3,5-Dijod-1-Oxybenzol. Sm. 103-104° (C. r. 136, 237 C. 1903 [1]

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8) 3-Jod-1-Jodosobenzol. Zers. bei 124°. HNO<sub>3</sub>, H<sub>2</sub>SO<sub>4</sub>, H<sub>2</sub>CrO<sub>4</sub> (B. 37,
C_6H_4OJ_2
                              1302 C. 1904 [1] 1339).
                         9) 1,2,3,9-Benzisotetrazol-5-Carbonsäure. Ag (B. 36, 1115 C. 1903
CaH4OaN4
                              [1] 1184).
                       *4) 2,5-Dichlor-1,4-Dioxybenzol. Sm. 170° (C. 1903 [2] 550).
3) 1,3-Dijodosobenzol (B. 37, 1304 C. 1904 [1] 1340).
4) 3-Jod-1-Jodobenzol. Zers. bei 216—218° (B. 37, 1305 C. 1904 [1] 1340).
C<sub>6</sub>H<sub>4</sub>O<sub>2</sub>Cl<sub>2</sub>
C_6H_4O_2J_2
                         2) 2-Nitro-1-Nitrosobenzol. Sm. 126-126,5° (B. 36, 3804 C. 1904 [1] 17;
C<sub>6</sub>H<sub>4</sub>O<sub>8</sub>N<sub>2</sub>
                              B. 36, 4176 C. 1904 [1] 264).
                         3) 3-Nitro-1-Nitrosobenzol. Sm. 85° (89-90,5°) (B. 36, 2530 C. 1903 [2] 491; B. 36, 3806 C. 1904 [1] 17).
4) 4-Nitro-1-Nitrosobenzol. Sm. 118,5-119° (B. 36, 3809 C. 1904 [1] 17;
                              B. 36, 4177 C. 1904 [1] 264).
                       *2) Verbindung (aus Acetylen). Sm. 78° (G. 33 [2] 322 C. 1904 [1] 255).
4) 4,6-Dibrom-1,2,3-Trioxybenzol? Sm. 158° u. Zers. (B. 37, 113
 C_6H_4O_3N_4
C6H4O8Br
                               C. 1904 [1] 585).
                        *1) 1, 2-Dinitrobenzol. Sm. 118-118,5° (B. 36, 3805 O. 1904 [1] 17;
C_6H_4O_4N_2
                              B. 36, 4176 C. 1904 [1] 264).
                        *2) 1,3-Dinitrobenzol. Sm. 71°. + AlCl<sub>3</sub> (C. 1903 [2] 194; Soc. 85, 1108
                               C. 1904 [2] 976).
                       *3) 1,4-Dinitrobenzol. Sm. 173,5—174° (B. 36, 3829 C. 1904 [1] 19).
*4) 2,4-Dinitroso -1, 3-Dioxybenzol + ½ H<sub>2</sub>O. Zers bei 164—166° (B. 36, 736 C. 1903 [1] 840; B. 37, 1794 C. 1904 [1] 1612).
                        *6) 1, 2-Diazin-4, 5-Dicarbonsaure. Sm. 212-213,5°. Ag. (É. 36, 3376
                       C. 1903 [2] 1192).

10) 1,3-Diazin-4,5-Dicarbonsaure . Sm. 212—213,5 . Ag<sub>2</sub> (B. 50, 5576 C. 1903 [2] 1192).

10) 1,3-Diazin-4,5-Dicarbonsaure + H<sub>2</sub>O. Sm. 2656 u. Zers. (NH<sub>4</sub>)<sub>2</sub>, Cu + ½H<sub>2</sub>O, Ag<sub>2</sub> (B. 37, 3648 C. 1904 [2] 1513).

2) 1,3-Dijodobenzol. Zers. bei 2616 (B. 37, 1306 C. 1904 [1] 1340).

*1) 2,3-Dinitro-1-Oxybenzol (R. 21, 446 C. 1903 [1] 510).

*2) 2,4-Dinitro-1-Oxybenzol (R. 21, 446 C. 1903 [1] 510).

*3) 2,5-Dinitro-1-Oxybenzol (R. 21, 446 C. 1903 [1] 510).

*4) 2.6-Dinitro-1-Oxybenzol (R. 21, 446 C. 1903 [1] 510).
 \mathbf{C}_{6}\mathbf{H}_{4}\mathbf{O}_{4}\mathbf{J}_{9}
\mathbf{C}_{6}\mathbf{H}_{4}\mathbf{O}_{5}\mathbf{N}_{2}
                        *4) 2,6-Dinitro-1-Oxybenzol (R. 21, 446 C. 1903 [1] 510).
                        *5) 3,4-Dinitro-1-Oxybenzol (R. 21, 446 C. 1903 [1] 510).

*6) 3,5-Dinitro-1-Oxybenzol (R. 21, 446 C. 1903 [1] 510).

1) 1,4-Benzochinon-2-Sulfonsäure. NH<sub>4</sub>, K (J. pr. [2] 69, 341 C. 1904
 C_6H_4O_5S
                        *6) Pyrazol-3, 4, 5-Tricarbonsäure + 2H<sub>2</sub>O. Sm. 230° (A. 325, 184 C. 1903 [1] 646).
 C6H4O6N2
                          4) Verbindung (aus Acetylen). Sd. 112°<sub>40</sub> (G. 33 [2] 322 C. 1904 [1] 256). C 33,3 — H 1,8 — O 51,8 — N 13,0 — M. G. 216.
 C_6H_4O_6N_4
 C6H4O7N2
                          1) 4,6-Dinitro-1,2,3-Trioxybenzol. Sm. 208° (B. 37, 120 C. 1904 [1] 586).
                        *1) 2,3,4-Trichlor-1-Amidobenzol. Sm. 65-68° (A. 330, 56 C. 1904
 C6H4NCl8
                              [1] 1142).
                          6) 2, 3, 5-Trichlor-4-Methylpyridin.
                                                                                                        Sm. 31-31,5° (Soc. 83, 399
                               C. 1903 [1] 841, 1141).
                       *1) 2, 4, 6-Trijod-1-Amidobenzol. Sm. 185° (B. 36, 2070 C. 1903 [2] 358), 3) 2, 4, 5-Trijod-1-Amidobenzol. Sm. 116° (C. r. 137, 1066 C. 1904 [1] 266), *1) 1, 4-Di[Chlorimido]-1, 4-Dihydrobenzol. Sm. 126° u. Zers. (B. 37,
 C_6H_4NJ_8
 C_6H_4N_2Cl_2
                        1498 C. 1904 [1] 1414).
*3) 2,6-Dibrom-1,4-Dimido-1,4-Dihydrobenzol. HCl, HBr (Am. 31,
 C<sub>6</sub>H<sub>4</sub>N<sub>2</sub>Br<sub>2</sub>
                         210 C. 1904 [1] 1073).

1) 3,6-Diamido-1,2,4,5-Tetrathiocarbonyl-1,2,4,5-Tetrahydrobenzol (Soc. 83, 1211 C. 1903 [2] 1329).
 C6H4N2S4
                       3) 4-Chlor-1,2,3-Benztriazol. Sm. 156° (B. 36, 4028 C. 1904 [1] 294).
1) 4-Nitrobenzoldiazoniumazid (B. 36, 2057 C. 1903 [2] 356).
*1) Ferrocyanwasserstoffsäure (C. r. 137, 65 C. 1903 [2] 348).
2) 2 Tod I Dichlerickersky and C. Indelegation (C. 1903 [2] 348).
 C_8H_4N_8C1
 C_6H_4N_5Br
 C_6H_4N_6Fe
 C_6H_4Cl_2J_2
                          2) 3-Jod-1-Dichlorjodosobenzol (3-Jodphenyljodidchlorid). Zers. bei 112°
                               (B. 37, 1301 C. 1904 [1] 1339).

2) 1,3-Di[Dichlorjodoso] benzol (1,3-Phenylendijodidtetrachlorid). Zers. bei 122° (B. 37, 1301, 1305 C. 1904 [1] 1339).
*1) 2-Chlor-1-Oxybenzol (D.R.P. 141751 C. 1903 [1] 1324; D.R.P. 155631

 C6H4Cl4J2
 C<sub>6</sub>H<sub>5</sub>OCl
                                C. 1904 [2] 1486).
 C6H6OBr
                        *3) 4-Brom-1-Oxybenzol. + H<sub>3</sub>PO<sub>4</sub> (Sm. 65-75°) (R. 21, 354 C. 1903
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*3) 3-Jod-1-Oxybenzol (A. 332, 66 C. 1904 [2] 42).
 C_6H_5OJ
                   *5) Jodosobenzol (B. 36, 2996 C. 1903 [2] 932).
 C_6H_5O_2N
                   *1) Nitrobenzol (B. 36, 971 C. 1903 [1] 1066; B. 36, 1110 C. 1903 [1]
                   *3) Pyridin-2-Carbonsäure (M. 24, 199 C. 1903 [2] 48).
*4) Pyridin-3-Carbonsäure (M. 24, 200 C. 1903 [2] 48).
*5) Pyridin-4-Carbonsäure (M. 24, 200 C. 1903 [2] 48).
                   *1) 2-Nitro-1-Oxybenzol. Na, K +\frac{1}{2}H<sub>2</sub>O, Rb +\frac{1}{2}H<sub>2</sub>O (Am. 30, 312)
C6H5O8N
                         C. 1903 [2] 1116).
                  *2) 3-Nitro-1-0xybenzol. Na, K + H<sub>2</sub>O, Rb, Cs (Am. 30, 317 C. 1903 [2] 1116; J. pr. [2] 68, 480 C. 1904 [1] 443).

*3) 4-Nitro-1-0xybenzol. Na + 4H<sub>2</sub>O, K + H<sub>2</sub>O, Rb + H<sub>2</sub>O, Cs + 3H<sub>2</sub>O (Am. 30, 318 C. 1903 [2] 1116; J. pr. [2] 68, 484 C. 1904 [1] 444).

*4) 4-Nitroso-1,3-Dioxybenzol (B. 35, 4192 C. 1903 [1] 145).
C<sub>6</sub>H<sub>5</sub>O<sub>6</sub>Br
                    4) 4-Brom-1,2,3-Trioxybenzol. Zers. oberh. 120° (B. 37, 112 C. 1904
                         [1] 584).
                    5) 2-Brommethylfuran-5-Carbonsäure. Sm. 147-148° (Am. 15, 180).
                          -- *III, 507.
\mathbf{C_6H_5O_4N}
                  *1) 3-Nitro-1,2-Dioxybenzol. Sm. 85,5° (J. pr. [2] 68, 477 C. 1904 [1]
                        443; J. pr. [2] 68, 481 C. 1904 [1] 444).
                  *2) 4-Nitro-1,2-Dioxybenzol. Sm. 175,5—176,5° (J. pr. [2] 68, 477 C. 1904 [1] 443; J. pr. [2] 68, 482 C. 1904 [1] 444).
*3) 2-Nitro-1,3-Dioxybenzol. Sm. 85° (D.R.P. 145190 C. 1903 [2] 973;
                        B. 37, 725 C. 1904 [1] 1005).
C6H5O4N3
                  *3) 4-Nitro-1-Nitramidobenzol. Sm. 110° (A. 330, 36 C. 1904 [1] 1141).
C6H5O5N
                    7) 4-Nitro-1,2,3-Trioxybenzol. Sm. 162^{\circ} (NH<sub>4</sub>)<sub>2</sub>, K<sub>2</sub>, + 2 Chinolin (B. 37,
                    114 C. 1904 [1] 585).

8) Methylester d. P-Nitrofuran-2-Carbonsäure. Sm. 78,5° (C. r. 137,
                        520 C. 1903 [2] 1069).
C<sub>6</sub>H<sub>5</sub>O<sub>5</sub>N<sub>8</sub>
                  *1) 4,6-Dinitro-2-Amido-1-Oxybenzol (C. 1904 [2] 1385).
CaHSON
                   *1) 2,4,6-Trinitro-1,3-Diamidobenzol (R. 21, 324 C. 1903 [1] 79).
                       β-Nitroisoallitursäure. Sm. 170—195° u. Zers. (A. 333, 122 C. 1904
                    3)
                        [2] 894).
C_6H_5O_9N_9
                       Verbindung (aus d. Verb. C_{12}H_{18}O_{10}N_{12}) = (C_6H_5O_9N_2)x. Ag (M. 25,
                        118 C. 1904 [1] 1553).
C,H,NCl.
                  *2) 2,4-Dichlor-I-Amidobenzol. Sm. 61—62° (C. 1903 [2] 549).
                   *1) 2,4-Dibrom-1-Amidobenzol. Sm. 80° (C. 1903 [2] 549).
C6H5NBr2
                  *3) 2,6-Dibrom-1-Amidobenzol.
                                                                      Sm. 82—83° (A. 329, 217 C. 1903 [2]
                        1427).
CaH,NJ,
                  *1) 2,4-Dijod-1-Amidobenzol. Sm. 95-96° (C. 1903 [2] 550; C. r. 139,
                       64 C. 1904 [2] 590).
                  *3) 3,5-Dijod-1-Amidobenzol. Sm. 107° (C. r. 136, 237 C. 1903 [1] 574).
4) 2,6-Dijod-1-Amidobenzol. Sm. 122° (C. r. 138, 1505 C. 1904 [2] 319).
5) 3,4-Dijod-1-Amidobenzol. Sm. 74,5° (C. r. 136, 1078 C. 1903 [1]
C6H5N2Br8
                    4) 3,4,5-Tribrom-1,2-Diamidobenzol. Sm. 91°. HCl (Am. 30, 78 C. 1903)
                       [2] 356).
                  1) Diazobenzolfluorid. HF (B. 36, 2059 C. 1903 [2] 357).
*1) 4-Chlor-1-Merkaptobenzol. Sm. 54° (C. r. 138, 982 C. 1904 [1] 1413).
3) 2-Chlor-1-Merkaptobenzol. Sd. 205—206° (C. 1904 [2] 1176).
C_6H_5N_2F
C,H,ClS
                  *1) Jodbenzoldichlorid (C. r. 136, 242 C. 1903 [1] 570).
C<sub>6</sub>H<sub>5</sub>Cl<sub>2</sub>J
C<sub>6</sub>H<sub>5</sub>Cl<sub>8</sub>Si
                  *1) Siliciumphenyltrichlorid (B. 37, 1139 C. 1904 [1] 1257)
                  *1) 4-Brom-1-Merkaptobenzol. Sm. 70-71° (C. r. 138, 982 C. 1904
C<sub>6</sub>H<sub>5</sub>BrS
                        [1] 1413),
                  *1) 4-Nitroso-1-Amidobenzol. Sm. 175° (B. 36, 3830 C. 1904 [1] 19).
*1) 2-Merkapto-1-Oxybenzol (C. 1904 [2] 1176).
*4) 4-Nitro-1-Amidobenzol. Sm. 147° (B. 36, 3829 C. 1904 [1] 19;
C_6H_6ON_2
C,HOS
C_6H_6O_2N_2
                  D.R.P. 148749 C. 1904 [1] 554).

*5) Oxynitrosoamidobenzol. Sm. 59°. Ba + H<sub>2</sub>O (A. 329, 192 C. 1903 [2] 1414; G. 33 [2] 242 C. 1904 [1] 24).
                  *9) 1,4-Dioximido-1,4-Dihydrobenzol. Zers. bei 230—240° (B. 36, 4137
                        C. 1904 [1] 185).
                 *16) 3-Amidopyridin-4-Carbonsäure (M. 23, 944 C. 1903 [1] 296).
*21) 4-Amidopyridin-3-Carbonsäure (M. 23, 945 C. 1903 [1] 296).
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24) 4-Nitroso-3-Amido-1-Oxybenzol. Sm. 200° u. Zers. (B. 37, 2278 C.
C_6H_6O_2N_2
                                  1904 [2] 434).
                           *6) Heteroxanthin (C. 1904 [2] 1421).
C_6H_6O_2N_4
                           *1) Benzolsulfinsäure. Sm. 84°. Na + H<sub>2</sub>O, Mg<sub>2</sub> + 6H<sub>2</sub>O, Ag (B. 35, 4114 C. 1903 [1] 82; B. 37, 2153 C. 1904 [2] 186).
 CaHaO2S
                          19) Imid d. \alpha-Imido-\gamma-Ketobutan-\alpha\beta-Dicarbonsaure (A. 332, 135 C. 1904 [2] 190).
C_6H_6O_8N_2
                           *1) Benzolsulfonsäure. NH<sub>4</sub> + HF, Methylaminsalz, Aethylaminsalz, Diäthylaminsalz, Anilinsalz (A. 328, 145 C. 1903 [2] 992; B. 37, 3804 C.
 C<sub>6</sub>H<sub>6</sub>O<sub>3</sub>S
                                  1904 [2] 1564).
                         *9) 2-Methylimidazol-4,5-Dicarbonsäure (B. 37, 701 C. 1904 [1] 1562).
*12) 4-Methylpyrazol-3,5-Dicarbonsäure + H<sub>2</sub>O. Sm. 313° (315° u. Zers.)
(B. 36, 1131 C. 1903 [1] 1139; A. 325, 182 C. 1903 [1] 646).
 C_6H_6O_4N_2
                           13) 4,5-Diacetyl-1,2,3,6-Dioxdiazin (Diacetylglyoximhyperoxyd). Fl. (C.
                                   1903 [2] 1432).
                           14) Verbindung (aus 1,4-Dinitrobenzol). K<sub>2</sub> (B. 36, 4177 C. 1904 [1] 264).
 CoHOAN4
                           11) Isoallitursäure. Sm. 258—260° u. Zers. Ag, (A. 333, 118 C. 1904
                                   [2] 893).
                           *3) 4-Oxybenzol-1-Sulfonsäure. (NH<sub>4</sub> + HF) (A. 328, 146 C. 1903
 C<sub>6</sub>H<sub>6</sub>O<sub>4</sub>S ...
                           *1) Benzol-1,3-Disulfinsäure. Fl. K<sub>2</sub>, Zn + 3H<sub>2</sub>O (B. 36, 189 C. 1903 [1] 467; J. pr. [2] 68, 315 C. 1903 [2] 1170).

2) Benzol-1,4-Disulfinsäure. K<sub>2</sub>, Ba (J. pr. [2] 68, 330 C. 1903 [2] 1171).

*1) Benzol-1,3-Di [Thiolsulfonsäure]. K<sub>2</sub> (J. pr. [2] 68, 329 C. 1903 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 1003 [2] 
 C_6H_6O_4S_2
 C6H6O4S4
                                  [2] 1171).
                           10) 1,2-Dioxybenzol-P-Sulfonsäure (D.R.P. 137119 C. 1903 [1] 112).
 C_6H_6O_5S
                           *3) Dimethylester d. 1,2,3,6-Dioxdiazin-4,5-Dicarbonsäure. Sd.151°<sub>10</sub> (Bl. [3] 27, 1165 C. 1903 [1] 228).
 C_6H_6O_6N_2
                             4) Monoäthylester d. 1,2,3,6-Dioxdiazin-4,5-Dicarbonsäure. Sm. 103,5 ^{\circ}.
                                   NH<sub>4</sub> (Bl. [3] 27, 1168 C. 1903 [1] 228).
                           *1) 1,2,3-Trioxybenzol-P-Sulfonsäure. Sr + 2 \text{H}_2\text{O} (C. r. 136, 760 C.
C_6H_6O_6S
                                  1903 [1] 1024).
                           *4) 2-Methylfuran-5-Carbonsäure-4-Sulfonsäure. K_2 + 2H_2O (Am. 32,
                                  189 C. 1904 [2] 1138).
CaHaOaHga
                             1) Verbindung (aus Essigsäureanhydrid u. Merkuriacetat) (B. 36, 3707
                                   C. 1903 [2] 1240).
                           *2) 1,2,3-Trioxybenzol-P-Disulfonsäure. Sr + 3H<sub>2</sub>O, Ba<sub>8</sub> (C. r. 136,
CoHOOS
                                   760 C. 1903 [1] 1024).
                           *3) 4-Chlor-l-Amidobenzol (Am. 29, 302 C. 1903 [1] 1165; C. r. 138,
C<sub>6</sub>H<sub>6</sub>NCl
                                   1174 C. 1904 [2] 96).
                          *1) 2-Jod-1-Amidobenzol. Sm. 57° (M. 25, 956 C. 1904 [2] 1638).
*3) 2,6-Dibrom-1,4-Diamidobenzol (Am. 31, 209 C. 1904 [1] 1073).
9) 2,5-Dibrom-1,4-Diamidobenzol. Sm. 183—184°. 2HCl (Am. 28, 458
C,H,NJ
C.H.N.Br.
                                   C. 1903 [1] 322).
CoHoN2S2
                           *1) 2,5-Diamido-1,4-Dithiocarbonyl-1,4-Dihydrobenzol. Sm. 234—235°
                                  u. Zers. HCl, 2HCl (Soc. 83, 1208 C. 1903 [2] 1328).
                          *1) 2-Amido-1-Oxybenzol (J. pr. [2] 68, 473 C. 1904 [1] 442).
*2) 3-Amido-1-Oxybenzol (J. pr. [2] 68, 474 C. 1904 [1] 443).
*3) 4-Amido-1-Oxybenzol (J. pr. [2] 68, 479 C. 1904 [1] 443; D.R.P.
CaH,ON
                        150800 C. 1904 [1] 1235).
*11) 2-Keto-1-Methyl-1, 2-Dihydropyridin (B. 36, 1062 C. 1903 [1] 1267).
                        *15) 2-Methylimidomethylfuran. Sd. 67^{\circ}_{10}. HCl, (2HCl, PtCl<sub>4</sub> + H<sub>2</sub>O), (HCl, AuCl<sub>3</sub>) (A. 335, 371 C. 1904 [2] 1405). 
*7) 4-Nitroso-1,3-Diamidobenzol (B. 37, 2276 C. 1904 [2] 433).
C.H.ON.
C.H.OCI
                            2) 5-Chlor-1-Keto-1, 2, 3, 4-Tetrahydrobenzol. Sd. 104 6 (Soc. 83, 499)
                            C. 1903 [1] 1028, 1352).

1) 5-Brom-I-Keto-I, 2, 3, 4-Tetrahydrobenzol.
CaH,OBr
                                                                                                                                      Sd. 132,5—133°<sub>52</sub> (Soc.
                          83, 500 C. 1903 [1] 1028, 1352).
*2) 4-Amido-I, 3-Dioxybenzol (B. 35, 4195 C. 1903 [1] 145).
C<sub>6</sub>H<sub>7</sub>O<sub>2</sub>N
                        *16) Nitril d. \beta\delta-Diketopentan-y-Carbonsäure. Sm. 50° (B. 37, 3386 C.
                                  1904 [2] 1220).
                          30) P-Acetylamidofuran. Sm. 112° (C. r. 136, 1455 C. 1903 [2] 292).
                          31) 3-Acetyl-5-Methylisoxazol? Sm. 22°; Sd. 177° (G. 34 [1] 49 C. 1904
                                  [1] 1150).
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32) 5-Oxy-4-Keto-2-Methyl-1,4-Dihydropyridin + H₂O. Sm. 80° (170 bis 171° wasserfrei). HCl + 2H₂O (\mathcal{C} . r. 138, 507 \mathcal{C} . 1904 [1] 897). *2) 4-Nitro-1,3-Diamidobenzol. Sm. 157° (\mathcal{B} . 37, 2277 \mathcal{C} . 1904 [2] 433). $C_6H_7O_9N$ C6H7O2N8 *8). 4-Nitrophenylhydrazin (C. 1903 [2] 1471).
12) 4-Acetylamido-2-Keto-1, 2-Dihydro-1, 3-Diazin. Sm. noch nicht bei 300° (Am. 29, 500 C. 1903 [1] 1311). 13) 2-Acetylamido-4-Keto-3, 4-Dihydro-1, 3-Diazin. Sm. 247° (Am. 29, 504 *C.* **1903** [1] 1311). 14) 6-Hydrazidopyridin-3-Carbonsäure. Sm. 283°. H₂SO₄ (B. 36, 1113 C. 1903 [1] 1184). 19) 4-Amido-1,2,3-Trioxybenzol. HCl (B. 37, 118 C. 1904 [1] 586). $C_6H_7O_8N$ C,H,O,Br, *1) Aethylester d. $\alpha \alpha \gamma$ -Tribrom- β -Ketopropan- α -Carbonsäure (C. 1904) [1] 1067). *6) Dimethylviolursäure (Soc. 83, 18 C. 1903 [1] 448).
9) 5-Acetylamido-2,4,6-Triketohexahydro-1,3-Diazin. NH4, K, Ag $\mathbf{C}_{8}\mathbf{H}_{7}\mathbf{O}_{4}\mathbf{N}_{8}$ (A. 333, 85 C. 1904 [2] 827). $C_6H_7O_4Br$ 6) $\alpha \gamma$ -Lakton d. β -Brom- γ -Oxybutan- $\alpha \beta$ -Dicarbonsäure. Sm. 138° u. Zers. (A. 331, 140 C. 1904 [1] 933).
2) 2,4,6-Triketohexahydro-1,3-Diazin-5-Amidoessigsäure (Uramilo-C₆H₇O₅N₈ essigsäure) (A. 333, 70 \mathcal{O} . 1904 [2] 772). *2) α -Aethylester d. α -Nitroäthen- $\alpha\beta$ -Dicarbonsäure (α -Ae. d. Nitro- $C_6H_7O_6N$ maleïnsäure). K, Anilinsalz (Am. 32, 232 C. 1904 [2] 1141). 6) Trinitrat d. Salepschleim (B. 36, 3201 C. 1903 [2] 1054). $\mathbf{C}_{6}\mathbf{H}_{7}\mathbf{O}_{11}\mathbf{N}_{8}$ C6HNS *3) Methyläther d. 2-Merkaptopyridin. Sd. 1970 (A. 331, 251 C. 1904 [1] 1222). *4) 2-Thiocarbonyl-1-Methyl-1, 2-Dihydropyridin. Sm. 89° (A. 331, 248 C. 1904 [1] 1222). 1) 2-Selencarbonyl-1-Methyl-1, 2-Dihydropyridin. C_6H_7NSe Sm. 79—80° (A. **331**, 251 *C*. **1904** [1] 1222). 2) Methyläther d. 2-Selenopyridin. Sd. 212° (A. 331, 253 C. 1904 [1] 1223). *1) 4-Chlor-1,2-Diamidobenzol. Sm. 72° (76°). H₂SO₄ (B. 36, 4027 C. CaH, NaCl **1904** [1] 294; B. 37, 555 C. 1904 [1] 893). $C_6H_8ON_2$ *4) 3,4-Diamido-1-Oxybenzol. 2HCl, (2HCl, SnCl₂) (B. 37, 2278 C. 1904 [2] 434). *12) 2-Keto-4, 6-Dimethyl-2, 5-Dihydro-1, 3-Diazin. Sm. 198—199 (Am. 32, 357 C. 1904 [2] 1415). 18) 3-Oximido-2,4-Dimethylisopyrrol. Na (G. 34 [1] 43 C. 1904 [1] 1150). 19) 3-Oximido-2, 5-Dimethylisopyrrol. Na (G. 34 [1] 44 C. 1904 [1] 1150). 20) 3- oder 5-Acetyl-4-Methylpyrazol. Sm. 102-103°; Sd. 160-161° 26 (B. 36, 1131 C. 1903 [1] 1139). *18) 2,4-Diketo-3,6-Dimethyl-1,2,3,4-Tetrahydro-1,3-Diazin. Sm. 261 $\mathbf{C}_{\mathbf{a}}\mathbf{H}_{\mathbf{a}}\mathbf{O}_{\mathbf{a}}\mathbf{N}_{\mathbf{a}}$ bis 262° (A. 329, 349 C. 1904 [1] 435).
*20) 2,4-Diketo-5,6-Dimethyl-1,2,3,4-Tetrahydro-1,3-Diazin. Sm. 292° u. Zers. (Am. 29, 489 C. 1903 [1] 1309). 22) 2-Methyläther d. 2,6-Dioxy-4-Methyl-1,3-Diazin. Sm. 207°. (2HCl, PtCl₄), Ag (C. 1904 [2] 30).

23) Dimethyläther d. 2,4-Dioxy-1,3-Diazin. Sm. 10°; Sd. 204,5—205°₇₆₀. (HCl, AuCl₃), 2 + 3 HgCl₂ (B. 36, 3379 C. 1903 [2] 1192).

24) Dilaktam d. β₂-Diamidobutan-αδ-Dicarbonsäure + H₂O. HCl + H₂O (B. 35, 4125 C. 1903 [1] 136; B. 36, 172 C. 1903 [1] 445). 25) Cyanamid d. α-Acetylpropionsäure? Zers. bei 260° (Am. 29, 489 C. 1903 [1] 1309). 26) Methylester d. α-Cyan-β-Amidopropen-α-Carbonsäure. Sm. 181,5° (Bl. [3] 31, 334 C. 1904 [1] 1135). 27) Verbindung (aus βγε-Trioximidohexan). Sm. 117° (G. 34 [1] 47 C. 1904 [1] 1150). 2) 1-Aethylidenamido-5-Methyl-1,2,3-Triazol-4-Carbonsäure.

153° u. Zers. (B. 36, 3617 C. 1903 [2] 1381). 5) $\gamma \gamma$ -Dichlor- $\beta \varepsilon$ -Diketohexan. Sd. 124—126° (A. 335, 261 C. 1904 [2] 1283). CaHaO,Cl2

CaHaO2N4

1) $\beta\beta\beta$ -Trichlor- α -Oxyäthyläther d. $\alpha\alpha\alpha$ -Trichlor- β -Oxy- β -Methylpropan (Chloralacetonchloroform). Sm. 65° (D.R.P. 151188 G. 1904 CaHaOaCla [1] 1506). *5) 2,4,6-Triketo-5-Aethylhexahydro-1,3-Diazin. Sm. 194° (D.R.P. C₆H₆O₈N₂ 146948 C. 1904 [1] 68; A. 335, 357 C. 1904 [2] 1382). *7) 2,4,6-Triketo-5,5-Dimethylhexahydro-1,3-Diazin. Sm. 279°. Na. (D.R.P. 146496 C. 1903 [2] 1484; D.R.P. 146949 C. 1904 [1] 68; A. 335, 341, 364 C. 1904 [2] 1381). 21) 4,6-Diamido-1,2,3-Trioxybenzol. 2 HCl (B. 37, 121 C. 1904 [1] 586). 22) 2,4-Diketo-l-Acetyl-3-Methyltetrahydroimidazol. Sm. 134-135° (A. 333, 131 C. 1904 [2] 895). 23) 2,4-Diketo-l-Acetyl-5-Methyltetrahydroimidazol. Sm. 129—131° (A. 327, 383 C. 1903 [2] 661). 24) 5-Oxy-2, 4-Diketo-3, 6-Dimethyl-1, 2, 3, 4-Tetrahydro-1, 3-Diazin (Oxy-β-Dimethyluracil) (A. 327, 264 C. 1903 [2] 349). 25) Oxyhistincarbonsaure + H₂O (Oxydesamidohistidin). Sm. 204° (M. 24, 237 C. 1903 [2] 55).
26) Aethylester d. 5-Methyl-1, 2, 3-Oxdiazol-4-Carbonsäure (Anhydrid d. Diazoacetessigsäureäthylester). Sd. 102-104012 (A. 325, 134 C. 1903 [1] 643). *2) Aethylester d. $\alpha \alpha$ -Dibrom- β -Ketopropan- α -Carbonsäure. Sd. $120-125^{\circ}_{12}$ (B. 36, 1731 C. 1903 [2] 37; C. 1904 [1] 1067).

7) Verbindung (aus d. Verb. $C_6H_{12}O_4N_4$). Sm. 90° (B. 36, 4252 C. 1904 [1] 358; B. 36, 4366 C. 1904 [1] 358; B. 37, 48 C. 1904 [1] 506). $C_6H_8O_8Br_2$ CoHgO4N2 *4) αδ-Dibrombutan-αδ-Dicarbonsäure. Sm. 191° (B. 37, 2090 C. 1904 C6H6O4Br2 13) $\beta \gamma$ -Dibrombutan- $\alpha \beta$ -Dicarbonsäure. Sm. 174° u. Zers. (A. 331, 136) *d.* **1904** [1] 932). 14) $\gamma\delta$ -Dibrombutan- $\alpha\gamma$ -Dicarbonsäure. Sm. 149–150° (B. 36, 1203 C. 1903 [1] 1175). 15) isom. $\alpha \delta$ -Dibrombutan- $\alpha \delta$ -Dicarbonsäure. Sm. 138—139° (B. 37, 2091 C. 1904 [2] 23). $C_6H_8O_7Se_2$ 1) Verbindung (aus Mannit). Zers. bei 190° (C. r. 136, 376 C. 1903 [1] 625). $C^{26,9} - H^{3,0} - O^{59,7} - N^{10,4} - M.G.^{268}$ C6H8O10N2 1) Dimethylester d. Dinitroweinsäure. Sm. 75° (Soc. 83, 162 C. 1903 [1] 627). 2) Dimethylester d. Dinitrotraubensäure. Sm. 104° (B. 35, 4366 C. 1903 [1] 321). 2) 2,5-Diamido-1,4-Dimerkaptobenzol. Sm. 178-181° u. Zers. 2 HCl, ZnOH (Soc. 83, 1209 C. 1903 [2] 1328).
 13) Anhydrid d. P-Amidohexensäure. Sm. 109° (B. 37, 2360 C. 1904 CoHoN2S C,H,ON [2] 423). CaHON8 9) Methylanhydrodiacetylguanidin. Sm. 238—255°. $HC1 + 3H_{\bullet}O_{\bullet}$ (2HCl, PtCl₄ + 3H₂O) (Ar. 241, 462 C. 1903 [2] 988). 10) Amid d. 3, 4-Dimethylpyrazol-1-Carbonsäure. Sm. 164-165° u. Zers. (A. 329, 133 C. 1903 [2] 1323). u. Zers. (A. 329, 133 C. 1903 [2] 1323.
 Hydrazid d. 6-Hydrazidopyridin-3-Carbonsäure + H₂O. Sm. 217-218°. 2HCl, Pikrat (B. 36, 1112 C. 1903 [1] 1184).
 Aethylester d. α-Cyanpropionsäure. Sd. 198° (C. 1903 [2] 713).
 Furfurol + Methylamin. (2 HCl, PtCl₄) (A. 335, 374 C. 1904 [2] 1406).
 Nitril d. Butyroxylessigsäure. Sd. 200°₇₅₈ (C. 1904 [2] 1377).
 Hystidin. Sm. 253°. HCl + H₂O, (HCl, CdCl₂) Pikrolonat (M. 24, 229 C. 1903 [2] 55; H. 37, 220, 248 C. 1903 [1] 566; H. 39, 212 C. 1903 [2] 581; H. 39, 213 C. 1903 [2] 581; H. 42, 508 C. 1904 [2] 1289; H. 43, 73 C. 1904 [2] 1610).
 Asthyläther d. L-Nitroso-5-Oxy-3-Methylpyrazol. Sm. 40° (B. 37) C6HON $C_nH_0O_nN$ $C_6H_9O_2N_8$ 11) Aethyläther d. 1-Nitroso-5-Oxy-3-Methylpyrazol. Sm. 40° (B. 37, 2835 C. 1904 [2] 643). 12) Aethyläther d. 4-Nitroso-5-Oxy-3-Methylpyrazol. Sm. 126-127°
 u. Zers. (B. 37, 2835 C. 1904 [2] 643).

13) 5-Methylamido-2,4-Diketo-6-Methyl-1, 2,3,4-Tetrahydro-1,3-Diazin + H₂O. Sm. 214°. HCl (Am. 32, 355 C. 1904 [2] 1415).
14) 5-Dimethylamido-2,4-Diketo-1,2,3,4-Tetrahydro-1,3-Diazin.

Sm. 297° u. Zers. (Am. 32, 355 C. 1904 [2] 1415).

 $C_6H_9O_2N_8$ 15) Aethyläther d. 6-Jmido-2-Oxy-4-Keto-3, 4, 5, 6-Tetrahydro-1, 3-Diazin. Sm. 247° (D.R.P. 155732 C. 1904 [2] 1631). 16) Aethylester d. 5-Methyl-1,2,3-Triazol-4-Carbonsäure. Sm. 161 bis 162° (A. 325, 153 C. 1903 [1] 644). CaH,Ocl *1) 2-Chlor-3-Keto-1-Oxyhexahydrobenzol. Sm. 130—135° u. Zers. (Soc. 83, 499 C. 1903 [1] 1352). 6) 2-Brom-3-Keto-I-Oxyhexahydrobenzol? Sm. 143-145° u. Zers. $C_6H_9O_9Br$ (Soc. 83, 500 C. 1903 [1] 1352). 7) Aethylester d. α -Brompropen- α -Carbonsäure. (Ae. d. α -Bromcrotonsäure). Sd. 95—97°₁₆ (B. 36, 1085 C. 1903 [1] 1126). *4) **5-Amido-2, 4, 6-Triketo-1, 3-Dimethylhexahydro-1, 3-Diazin** (A. 333, C₆H₉O₈N₈ 74 C. 1904 [2] 826). 12) 5-Amido-2, 4, 6-Triketo-5-Aethylhexahydro-1, 3-Diazin. Sm. 216° u. Zers. (A. 335, 361 C. 1904 [2] 1382). 13) 5-Aethylamido-2, 4, 6-Triketohexahydro-1, 3-Diazin (Aethyluramil). A. 333, 65 C 1904 [2] 772). 14) Aethylester d. 1-Oxy-5-Methyl-1, 2, 3-Triazol-4-Carbonsäure. Sm. 147—148° (A. 325, 163 C. 1903 [1] 645). 6) Aethylester d. γ-Chlor-β-Ketopropan-α-Carbonsäure. Sd. 105°₁₁. Cu (C. r. 138, 421 C. 1904 [1] 789).
*3) Aethylester d. α-Brom-β-Ketopropan-α-Carbonsäure. Sd. 101 bis CaHaOaC1 $C_6H_9O_8Br$ 104°₁₂ (B. 36, 1730 C. 1903 [2] 37; C. 1904 [1] 1067). *1) Aethylester d. α -Jod- β -Ketopropan- α -Carbonsäure. Fl. (B. 36, $C_8H_9O_8J$ 1731 C. 1903 [2] 37). $C_6H_9O_4N$ *4) Aethylester d. anti- α -Oximido- β -Ketopropan- α -Carbonsäure (B. 37, 47 C. **1904** [1] 506). 11) Methylester d. α-Acetoximidopropionsäure. Sm. 42°; Sd. 136°, (Bl. [3] 31, 1070 C. 1904 [2] 1457). 12) Aethylester d. γ -Oximido- β -Ketopropan- α -Carbonsäure. Sm. 50° (B. 36, 4252 C. 1904 [1] 357). C₆H₉O₄N₈ 5) Aethylester d. α -Oximido- β -Nitrosimidobuttersäure. NH₄, K + H₂O, K₂, Ba, Zn (C. 1903 [2] 1111; B. 36, 4250 C. 1904 [1] 357; B. 36, 4366 C. 1904 [1] 358; B. 37, 48 C. 1904 [1] 506). *6) α -Brom- β -Methylpropan- $\alpha\beta$ -Dicarbonsäure. Sm. 140° (Soc. 83, 1383) C₆H₉O₄Br C. 1904 [1] 158, 434). *12) γ - oder δ -Brombutan- $\alpha \gamma$ -Dicarbonsäure. Sm. 110—111° (B. 36, 1203 *C*. 1903 [1] 1175). 13) β -Brombutan- $\alpha\delta$ -Dicarbonsäure. Sm. 147° u. Zers. (A. 326, 82 C. 1903 [1] 842). $C_6H_9O_6N$ 4) α -Nitro- β -Acetoxylbuttersäure (C. 1903 [2] 554). 1) Gem. Anhydrid d. Essigsäure u. Borsäure. Sm. 121° (B. 36, 2219 $C_6H_9O_6B$ C. 1903 [2] 420). $C_6H_9O_7N$ C 34,8 — H 4,3 — O 54,1 — N 6,7 — M. G. 207. 1) Nitrat d. $1-\alpha$ -Oxyäthan- $\alpha\beta$ -Dicarbonsäuredimethylester. Sm. 24 bis 25° (B. 35, 4363 C. 1903 [1] 320). C 32,3 — H 4,0 — O 57,4 — N 6,3 — M. G. 223.

1) Dimethylester d. Mononitroweinsäure. Sm. 97° (Soc. 83, 162 C. 1903) $C_8H_9O_8N$ [1] 627; B. 35, 4366 C. 1903 [1] 321; B. 36, 780 C. 1903 [1] 826). *1) Mannitpentanitrat (B. 36, 797 C. 1903 [1] 956).
2) Dulcitpentanitrat. Sm. 75° (B. 36, 799 C. 1903 [1] 956). C₆H₉O₁₆N₅ C,H,N,S Aethyläther d. 4-Amido-2-Merkapto-1, 3-Diazin. Sm. 85-86° (Am. 29, 497 C. 1903 [1] 1311). *4) Amid d. α -Cyanvaleriansäure. Sm. 124—124,5° (\mathcal{C} . 1903 [2] 192). *10) 5-Keto-3-Propyl-4,5-Dihydropyrazol. Sm. 198° ($\mathcal{B}l$. [3] 27, 1091 $C_6H_{10}ON_2$ C. 1903 [1] 226). *11) 5-Keto-3-Methyl-4-Aethyl-4, 5-Dihydropyrazol. Sm. 195—196 ° (Bl. [3] 31, 593 C. 1904 [2] 26; Bl. [3] 31, 761 C. 1904 [2] 343). 12) Aethyläther d. 5-Oxy-3-Methylpyrazol. Sm. 66-67° (B. 37, 2834) C. 1904 [2] 643).

13) 2,5-Diäthyl-1,3,4-Oxdiazol. Sd. 198°₇₈₀ (J. pr. [2] 69, 481 C. 1904 [2] 537).
14) Nitril d. α-Acetylamidoisobuttersäure. Sm. 106° (B. 37, 1921 C.

1904 [2] 196).

- 21) Aethylester d. α-Diazobuttersäure. Sd. 63-65°₁₁ (B. 37, 1274 C. 1904 [1] 1334).
- $C_{8}H_{10}O_{2}N_{4}$ 12) Bisdiazoaceton. Sm. 228° u. Zers. (G. 34 [1] 202 C. 1904 [1] 1485). $C_{8}H_{10}O_{2}Br_{2}$ *6) $\beta\gamma$ -Dibrompentan- γ -Carbonsäure. Sm. 83,5° (A. 334, 109 C. 1904 [2] 888).
 - 15) isom. β_{γ} -Dibrompentan- γ -Carbonsäure. Sm. 116,5° (A. 334, 109 C. 1904 [2] 888).
- 3) Disulfid d. Thiolpropionsäure. Fl. (B. 36, 1010 C. 1903 [1] 1077). *12) Triacetylhydrazin. Fl. (J. pr. [2] 69, 147 C. 1904 [1] 1274). $\begin{matrix}\mathbf{C_6H_{10}O_2S_2}\\\mathbf{C_6H_{10}O_3N_2}\end{matrix}$
- C₆H₁₀O₈N₄ 1) Acetat d. α -Oximido- β -Semicarbazon propan. Sm. 186° (C. 1903) [2] 1432).
- $\mathbf{C_6}\mathbf{H_{10}}\mathbf{O_4}\mathbf{N_2}$ *5) Diäthylester d. Azocarbonsäure. Sd. 111-112° (P. GUTMANN, Dissert., Heidelberg 1903).
 - 9) Acetylamidoacetylamidoessigsäure. Sm. 187—189° (B. 36, 2115 C. 1903 [2] 346).
 - 10) Aethylamid d. N-Acetoximidooxyessigsäure. Sm. 138º (Soc. 81, 1572 C. 1903 [1] 158).
- C 31,3 H 4,3 O 27,8 N 36,5 M. G. 230. C6H10O4N6 1) Amid d. 1,3-Dinitrosohexahydro-1,3-Diazin-4,6-Dicarbonsäure.
- Sm. 192—193° (G. 33 [1] 384 C. 1903 [2] 579). 1) α-Selendilaktylsäure. Sm. 145—146°. Ba, Ag, (B. 35, 4109 C. 1903 $C_6H_{10}O_4Se$ [1] 134).
 - 2) β-Selendilaktylsäure. Sm. 106—107°. Ba, Ag₂ (B. 35, 4110 C. 1903 [1] 135).
- Oxyd (aus d. Verb. C₁₄H₂₂O₁₁Hg₄) (B. 36, 3703 C. 1903 [2] 1239).
 Di[α-Oxyāthyl]sulfid-αα' Dicarbonsäure (α-Merkaptodimilchsäure). $C_6H_{10}O_5Hg_4$ $C_6H_{10}O_6S$
- Sm. 94° u. Zers. (87° u. Zers.) (A. 188, 325; R. 21, 297 C. 1903 [1] 16). — I, 897.
- 3) 4-Thiocarbonyl-2,5,5-Trimethyl-4,5-Dihydroimidazol? Sm. 1630 C,H,N,S HCl (B. 37, 1924 C. 1904 [2] 196).
- 4) 2,5-Diathyl-1,3,4-Thiodiazol. Sd. 105°,4 (J. pr. [2] 69, 482 C. 1904 [2] 537). 2) Aethylenäther d. $\alpha\delta$ -Diimido- $\alpha\delta$ -Dimerkaptobutan. HCl (B. 36,
- $C_6H_{10}N_2S_2$ 3467 C. 1903 [2] 1244). 1) 2-Jod-1-Chlorhexahydrobenzol. Sd. 117-118 14 (C. r. 135, 1057 C. C₆H₁₀CIJ
- **1903** [1] 233). $C_{6}H_{11}ON$ *26) 2-0ximido-1-Methyl-R-Pentamethylen (A. 331, 325 C. 1904 [1]
 - 1567). 32) d-3-Oximido-1-Methyl-R-Pentamethylen. Sm. 91-92,5° (A. 332,
 - 349 C. 1904 [2] 653). 33) isom. d-3-Oximido-1-Methyl-R-Pentamethylen. Sm. 60-68° (A. 332, 349 C. 1904 [2] 653).
- 1) ?-Trichlordipropyläther. Sd. 199-205° (G. 33 [2] 426 C. 1904 C₆H₁₁OCl₃ [1] 922).
- $C_6H_{11}OJ$ 4) 2-Jod-1-Oxyhexahydrobenzol. Sm. 41,5-42° (C. r. 135, 1055 C. **1903** [1] 233).
- *4) \$\textit{\beta}\$-\text{Nitroso}-\delta\$-\text{Keto-}\textit{\beta}\$-\text{Methylpentan.} Sm. 75,5°; Sd. 157-158°, 68. 36, 695 \$C\$. 1903 [1] 817; \$B\$. 36, 1069 \$C\$. 1903 [1] 1121).

 *16) Hygrinsäure + H₂O (1-Methyltetrahydropyrrol-2-Carbonsäure). Sm. 169-170°. HCl, (HCl, AuCl₃), Cu (A. 326, 122 \$C\$. 1903 [1] 843).

 *10) Acthorists \$\frac{1}{2}\$ \$A \text{midentify} \text{Applications} \frac{1}{2}\$ \$\frac{1}{2}\$ \$ $C_6H_{11}O_2N$

 - *19) Aethylester d. β-Amidocrotonsäure. Sm. 33° (20°) (B. 36, 388 C. 1903 [1] 567; C. 1904 [1] 1067).
 30) P-Nitroso-γ-Ketohexan. Sd. 120—125° (B. 36, 2715 C. 1903 [2] 987).
 31) Acetyland d. Isobuttersäure. Sm. 177—178° (C. r. 137, 714 C.
 - 1903 [2] 1428).
- C₆H₁₁O₂N₈ *3) Diamid d. Tetrahydropyrrol-2, 2-Dicarbonsäure. Sm. 162-162,5%. Pikrat (A. 326, 101 C. 1903 [1] 842). 4) Monosemicarbazon d. $\beta\gamma$ -Diketopentan. Sm. 209° (B. 36, 3185
- C. 1903 [2] 939). 17) α -Bromisocapronsäure. Sd. 128—131 $^{\circ}_{12}$ (B. 36, 2988 Anm. C. 1903 C_0H_1, O_2Br
- [2] 1112). *4) Aethylester d. α-Amido-α-Acetylessigsäure. Acetat (G. 34 [1] 193 $C_8H_{11}O_8N$ C. 1904 [1] 1333).

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22) \beta-Nitro-\delta-Keto-\beta-Methylpentan. Krystalle; Sd. 118—119^{0}_{17} (B. 36, 658 C. 1903 [1] 762).
C_6H_{11}O_8N

23) α-Acetylamidoisobuttersäure. K (B. 37, 1922 C. 1904 [2] 196).
24) δ-Oximido-β-Methylbutan-δ-Carbonsäure. Sm. 153—154° u. Zers. Ag (Bl. [3] 31, 1073 C. 1904 [2] 1457).
25) Isobutylester d. Oximidoessigsäure. Sd. 117—118°<sub>10</sub> (Bl. [3] 31, 678

                             C. 1904 [2] 195).
                      26) Monamid d. Propan-\beta\beta-Dicarbonsäuremonomethylester. Sm. 85 bis 86° (Soc. 83, 1241 C. 1903 [2] 1421). 27) sec. Butylmonamid d. Oxalsäure. Sm. 88—89° (Ar. 242, 55 C.
                             1904 [1] 997).
                        7) \beta \gamma \varepsilon-Trioximidohexan. Sm. 159° (G. 34 [1] 45 C. 1904 [1] 1150).
\mathbf{C_6H_{11}O_8N_8}
                        8) Acetat d. β-Semicarbazon-α-Oxypropan. Sm. 149—150° (145°) (C. r. 138, 1275 C. 1904 [2] 93; A. 335, 262, 269 C. 1904 [2] 1284).

9) Acetat d. α-Semicarbazon-β-Oxypropan. Sm. 163° (A. 335, 267 C. 1904 [2] 1284).
                      10) Acetylhydrazid d. Acetylamidoessigsäure. Sm. 183,5° (J. pr. [2]
                             70, 105 C. 1904 [2] 1036).
C_6H_{11}O_4N *14) Diäthylester d. Imidodicarbonsäure. Sm. 49-50°; Sd. 132-133°,
                             (B. 36, 743 C. 1903 [1] 827).
                      18) \alpha-Amidobutan-\alpha\beta-Dicarbonsäure + H<sub>2</sub>O. Sm. 110—112° (132° wasserfrei). Ag (B. 35, 4373 C. 1903 [1] 281).
                      19) \alpha-Amidobutan-\alpha\delta-Dicarbonsäure + H_2O. Sm. 204—206° (wasserfrei)
                             (C. 1903 [2] 34).
                      20) Aethylester d. \alpha-Nitrobuttersäure. Sd. 123^{\circ}_{20}. Na (C. 1904 [2] 1600). 21) Isobutylester d. Nitroessigsäure. Sd. 102^{\circ}_{3}. K (Bl. [3] 31, 853 C.
                             1904 [2] 641).
                      22) \beta-Amid d. \alpha-Oxybutan-\alpha\beta-Dicarbonsäure. Sm. 158-159° (B. 35,
                             4372 C. 1903 [1] 281).
                        3) Amidoacetylamidoacetylamidoessigsäure (Diglycylglycin). Sm. 246° u. Zers. (B. 36, 2983 C. 1903 [2] 1111; B. 37, 2500 C. 1904 [2] 426).
4) Aethylester d. 1,2-Dioxytetrahydro-1,2,3-Triazol-4-Methylencar-hamiltonia.
C_6H_{11}O_4N_3
                        bonsäure. Sm. 70—71°. Ba + 8H<sub>2</sub>O, Ag (B. 36, 4254 C. 1904 [1] 358). C 30,9 — H 4,7 — O 34,4 — N 30,0 — M. G. 233. 1) \beta-Semicarbazon-\gamma\gamma-Dinitropentan. Sm. 143—144° u. Zers. (G. 34 [1] 412 C. 1904 [2] 304).
C.H.,O.N.
                        2) γ-Semicarbazon-ββ-Dinitropentan. Sm. 147—148° u. Zers. (G. 34 [1] 412 C. 1904 [2] 304).
                      *1) P-Trinitro-\beta-Methylpentan. Sm. 85° (C. 1903 [2] 194).

1) Verbindung (aus d. Verb. C_{12}H_{18}O_{10}N_{12}). = (C_6H_{11}O_6N_6)_{\times} (M. 25, 120 C. 1904 [1] 1553).

1) Säure (aus Mannit) (C. r. 137, 518 C. 1903 [2] 1053).
C_6H_{11}O_6N_3
C6H11O6N6
C_6H_{11}O_6P
                        1) Saure (aus Mannit) (C. r. 151, 515 C. 1903 [2] 1005).
1) Dulcidphosphorsäure + 1/2 H<sub>2</sub>O (C. r. 139, 638 C. 1904 [2] 1536).
2) Säure (aus Mannit). Ba (C. r. 136, 307 C. 1903 [1] 625).
C 32,0 — H 4,9 — O 56,9 — N 6,2 — M. G. 225.
1) Nitrat d. Cellulose (B. 37, 549 C. 1904 [1] 872).
1) P-Dibrom-1,5-Dimethyl-2,3-Dihydropyrrol. HBr (G. 33 [2] 318 C. 1904 [1] 2020.
C_8H_{11}O_7P
C_6H_{11}O_8N
CaHuNBr
                             1904 [1] 292).

    ββββ-Tetrafluortriäthylamin. Sd. 137°<sub>754</sub> (C. 1904 [2] 1377).
    Allylamid d. Thiopropionsäure. Sd. 136°<sub>12</sub> (B. 37, 877 C. 1904 [1]

C_6H_{11}NF_4
C_6H_{11}NS
                       *3) Jodmethylat d. 1,2-Dimethylimidazol. Sm. noch nicht bei 300°
C_6H_{11}N_2J
                             (Soc. 83, 470 C. 1903 [1] 931, 1143).
                        5) Jodmethylat d. 1,3-Dimethylpyrazol. Sm. 256° (Soc. 83, 468 C. 1903
                             [1] 931, 1143)
                        6) Jodmethylat d. 1,4-[oder 1,5-]Dimethylimidazol. Sm. 156° (Soc. 83,
                             466 C. 1903 [1] 931, 1143).
                       *4) Amid d. Hexahydropyridin-1-Carbonsäure. Sm. 93° (Bl. [3] 31
CaH12ON2
                              C. 1904 [1] 521).

*2) Propyläther d. αβ-Dichlor-α-Oxypropan. Sd. 165—170° (G. 33 [2] 424 C. 1904 [1] 922).
30) αα-Di[Formylamido]-β-Methylpropan. Sm. 172° (M. 25, 936 C. 1904

CoH OCL
C_6H_{12}O_2N_2
                       31) Methylathylacetylharnstoff. Sm. 178,5° (A. 335, 367 C. 1904 [2] 1382).
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32) Ureïd d. Methyläthylessigsäure. Sm. 178,5° (D.R.P. 144431 C. 1903

5) β -Oximido- γ -Semicarbazon pentan. Sm. 219° u. Zers. (G. 34 [1] 410

6) γ -Oximido- β -Semicarbazonpentan. Sm. 222 ° u. Zers. (G. 34 [1] 411

 $C_6H_{12}O_2N_2$

 $C_6H_{12}O_2N_4$

C₆H₁₈OCl

C₆H₁₈OBr

 $C_6H_{18}O_2N$

1] 1196).

[2] 813).

C. 1904 [2] 304).

C. **1904** [2] 304).

 cyklisches Semicarbazon (aus Oxymethylenaceton u. Semicarbazid).
 Zers. bei 232° (A. 329, 131 C. 1903 [2] 1323). CaH12O2N *2) Diäthyläther d. $\beta\beta$ -Dichlor- $\alpha\alpha$ -Dioxyäthan. Sd. 181—184° (G. 33 [2] 405 C. 1904 [1] 922). C6H12O2Cl2 8) Aethylester d. α-Ureïdopropionsäure. Sm. 100° (93-94°) (Am. 28, C₆H₁₂O₈N₂ 393 C. 1903 [1] 90; A. 327, 382 C. 1903 [2] 661). 2) S-Methylhydroxyd d. Tetrahydrothiophen-2-Carbonsäure. Sm. $C_6H_{12}O_3S$ 105°. Salze siehe (B. 31, 2290, 2294; 33, 839). — *III, 593. *2) β_{γ} -Dinitro- β_{γ} -Dimethylbutan. Sm. 213—214° (B. 36, 1776 C. 1903 [2] 102). $C_6H_{12}O_4N_2$ 18) βγ-Diamidobutan-αβ-Dicarbonsäure + 2H₀O. Zers. bei 265-280°.
2 HCl (B. 35, 4124 C. 1903 [1, 136; B. 36, 173 C. 1903 [1] 445).
19) ?-Diamidobutan-αβ-Dicarbonsäure. Sm. 278° (B. 37, 1596 C. 1904 [1) 1449; H. 42, 283 C. 1904 [2] 958). Dinitrit d. βγ-Dioxy-βγ-Dimethylbutan. Sm. 160° u. Zers. (B. 36, 1775 C. 1903 [2] 102). 21) Methylamid d. d-Weinsäure. Sm. 189° (Soc. 83, 1360 C. 1904 [1] 84). 22) $Di[\beta$ -Oxyäthylamid] d. Oxalsäure. Sm. 167—168° (B. 36, 1279 C. 1903 [1] 1215). $C_6H_{12}O_4S$ 6) Allylacetonhydrosulfonsäure. Ba + H₂O (B. 37, 4048 C. 1904 [2] 7) 2-Oxyhexahydrobenzol-1-Sulfonsäure. Na + H₂O (C. r. 137, 63 C. 1903 [2] 570). Verbindung (aus Propylen) (B. 36, 3705 C. 1903 [2] 1239).
 Triäthylendiborat. Sm. 100; Sd. 271—272° (B. 36, 2221 C. 1903 $\mathbf{C}_{6}\mathbf{H}_{12}\mathbf{O}_{5}\mathbf{H}\mathbf{g}_{3}$ C,H,O,B, [2] 420). 2) Jodmethylat d. 5-Methyl-2, 3-Dihydropyrrol. Sm. 260° u. Zers. $C_6H_{12}NJ$ (G. 33 [2] 316 C. 1904 [1] 292). $C_6H_{12}N_2S_8$ 1) Sulfid d. Dimethylamidodithioameisensäure. Sm. 1040 (B. 36, 2280 C. 1903 [2] 560).
*3) Dimethyläther d. Di[Methylimidomerkaptomethyl]disulfid (B. 36, C₆H₁₂N₂S₄ 2266 C. 1903 [2] 562). C₆H₁₈ON *10) 1-Methylhexahydropyridin-N-Oxyd. (2HCl, PtCl₄), HJ, Pikrat (B. 37, 3233 C. 1904 [2] 1152). *22) s-Oximido-\(\theta\)-Methylpentan. Sd. 103° s (Bl. [3] 29, 646 C. 1903 [2] 553).
26) 2-Amido-l-Oxyhexahydrobenzol. Sm. 66°; Sd. 219°. HCl, HNOs (C. r. 137, 199 C. 1903 [2] 665). 27) γ-Oximidomethylpentan. Sd. 95% (Bl. [3] 31, 306 C. 1904 [1] 1133).
 28) Isoamylamid d. Ameisensäure. Sd. 123,5—124% (B. 36, 2475) C. 1903 [2] 559). C.H.ON

> 2) Brommethyläther d. α -Oxypentan. Sd. 74-76 $^{\circ}_{18}$ (C. r. 138, 814 C. 1904 [1] 1195). *19) r-Leucin. Sm. 290° u. Zers. (H. 37, 18 C. 1903 [1] 60; C. 1903 [2] 811; B. 37, 1838 C. 1904 [1] 1645; Bl. [3] 31, 1181 C. 1904 [2] 1710). *25) Diäthylamidoessigsäure. Camphersaures Salz (Ar. 240, 638 C. 1903

*3) β -Semicarbazonpentan. Sm. 112° (Bl. [3] 27, 1083 C. 1903 [1] 225).

7) α -Chlor- β -Oxy- β -Methylpentan. Sd. 75 $^{\circ}_{28}$ (C. r. 138, 767 C. 1904)

[1] 24). *32) Amidoformiat d. δ -Oxy- β -Methylbutan (Isoamylester d. Amido-

ameisensäure). Sm. 64,5° (B. 36, 2475 C. 1903 [2] 559; B. 37, 1040 C. 1904 [1] 1248). *57) Aethylester d. α-Amidobuttersäure. HCl (B. 37, 1273 C. 1904 [1]

1334).

61) α -Oximido- α -Oxyhexan (Capronhydroxamsäure) (G. 34 [1] 432 C. 1904

62) α-Amidocapronsäure. Sm. 285°. Cu (B. 35, 4015 C. 1903 [1] 390).

63) d-Isoleucin. Sm. 280° u. Zers. HCl, (2 HCl, PtCl₄), Cu, Ag (C. 1903 [2] 811; B. 37, 1823 C. 1904 [1] 1645).
64) Amidoformiat d. d-α-Oxy-β-Methylbutan. Sm. 61° (B. 37, 1041 C6H18O2N C. 1904 [1] 1248). 5) Aethyläther d. β -Semicarbazon- α -Oxypropan. Sm. 92° (A. 335, 240 $C_6H_{13}O_2N_3$ C. 1904 [2] 1204). 11) α-Amido-?-Oxycapronsäure. Sm. 190-200° (B. 35, 4015 C. 1903 C₆H₁₉O₅N [1] 390). Methylester d. α-Semicarbazidoisobuttersäure. Sm. 106,5° (Am. 28, 402 C. 1903 [1] 90). C₆H₁₃O₈N₃ *4) d-Glykosamin (B. 36, 28 C. 1903 [1] 446; H. 39, 423 C. 1903 [2] 962). *5) Isoglykosamin (C. r. 137, 658 C. 1903 [2] 1237). C₆H₁₈O₅N 2) Semicarbazon d. d-Arabinose. Sm. 1900 u. Zers. (B. [3] 31, 1076 $C_6H_{13}O_5N_3$ C. 1904 [2] 1492). 3) Semicarbazon d. d-Xylose. Sm. 202-204° u. Zers. (Bl. [3] 31, 1077 C. 1904 [2] 1492). *1) d-Glykosaminsäure. Brucinsalz (B. 35, 4012 C. 1903 [1] 390; B. $C_6H_{13}O_6N$ 36, 27 C. 1903 [1] 446). 10) Chitoseoxim. + 3PbO (B. 35, 4021 C. 1903 [1] 391). 11) Tetraoxyamidocapronsäure (H. 37, 420 C. 1903 [1] 1147). *6) Diäthyläther d. Methylimidodimerkaptomethan (C. r. 136, 452 C. CaH, NS 1903 [1] 699). *7) Methylester d. Diäthylamidodithioameisensäure (C. r. 136, 452 C. **1903** [1] 699). 8) Aethylenäther d. Di $[\beta$ -Merkaptoäthyl]amin (C. r. 136, 452 C. 1903 9) Isoamylester d. Amidodithioameisensäure. Sm. 51,5° (C. 1903 [1] *7) Dipropylnitrosamin. Sd. 95—95,6°₁₈ (B. 36, 2477 C. 1903 [2] 559). $C_6H_{14}ON_2$ 16) Aethylamid d. Aethylamidoessigsäure. HCl (Ar. 240, 633 C. 1903 *7) i-u s-Diamidocapronsäure (C. 1903 [2] 35). 14) isom. Diamidocapronsäure. Pikrat (B. 37, 2359 C. 1904 [2] 423). $C_6H_{14}O_2N_2$ *1) Arginin. Cu(NO₃)₂ + 2 H.O, Pikrolonat (H. 37, 221 C. 1903 [1] 566; H. 43, 73 C. 1904 [2] 1610). $\mathbf{C}_{6}\mathbf{H}_{14}\mathbf{O}_{2}\mathbf{N}_{4}$ *6) Schwefelsäureäthylisobutylester. Sd. 108 ° 13 (Am. 30, 219 C. 1903 $C_6H_{14}O_4S$ [2] 937). *7) Schwefelsäurediisopropylester (Am. 30, 222 C. 1903 [2] 937). 2) $\beta_{\gamma}\delta_{\varepsilon}$ -Tetraoxyamylharnstoff (Arabinaminharnstoff). Sm. 152—153° $\mathbf{C_6H_{14}O_5N_2}$ (C. r. 136, 1079 C. 1903 [1] 1305). *2) Diäthylester d. Aethan-αα-Disulfonsäure. Fl. (B. 37, 3808 C. 1904 $C_6H_{14}O_6S_2$ [2] 1564). Diäthylester d. Aethan-αβ-Disulfonsäure. Sm. 77,5° (B. 37, 3806) C. 1904 [2] 1564). 1) Glykoseschwefligesäure. Na (C. 1904 [2] 57). 1) Säure (aus Mannit). Ca (C. r. 137, 518 C. 1903 [2] 1053). $C_6H_{14}O_9S$ $C_6H_{14}O_{10}P_2$ 7) α -Methyl- β -[d-sec. Butyl]thioharnstoff. Sm. 840 (Ar. 242, 59 C. $C_6H_{14}N_2S$ **1904** [1] 998). 1) Thalliumdipropylchlorid. Zers. bei 198-202° (B. 37, 2060 C. 1904 C₆H₁₄ClTl [2] 20). 1) Thalliumdipropyljodid. Zers. bei 183-185° (B. 37, 2060 C. 1904 C6H14JT1 [2] 20). 20) α -Dimethylamido- β -Oxy- β -Methylpropan. Sd. 60°₄₈ (C. r. 138, 767) C₆H₁₅ON C. 1904 [1] 1196). 21) β-Dimethylamidodiäthyläther. Sd. 120—121°₇₅₀. (HCl, AuCl₃), Pikrat (B. 37, 3497 C. 1904 [2] 1320; B. 37, 3500, 3504 C. 1904 [2] 1320). 1) Thalliumdipropylhydroxyd. Fl. Salze siehe (B. 37, 2060 C. 1904 C₆H₁₅OTl [2] 20). *1) Triäthylester d. Phosphorigensäure. PtCl₂ (Z. a. Ch. 37, 398 C. C₆H₁₅O₈P

*1) Triäthylester d. Borsäure. Sd. 119° (B. 36, 2221 C. 1903 [2] 420).

 $Di[\alpha$ -Oxyisopropyl]unterphosphorigesäure. Sm. 185° u. Zers. (\hat{C} .

 $C_6H_{15}O_3B$

 $C_6H_{15}O_4P$

1904 [1] 157).

1904 [2] 1708).

 $\mathbf{C_6H_2O_6N_3Cl}$

*2) Glukamin (C. 1904 [1] 431). *3) Galaktamin (C. 1904 [1] 431). $C_6H_{15}O_5N$ 4) d-Glykamin (C. r. 137, 659 C. 1903 [2] 1238). 5) isom. d-ζ-Amido-αβγδε-Pentaoxyhexan (d-Mannamin). Sm. 139". (2HCl, PtCl₄), H₂SO₄, Oxalat (C. r. 137, 659 C. 1903 |2 | 1238; C. r. 138, 504 C. 1904 [1] 871). *1) Triäthylsulfinchlorid (*J. pr.* [2] 66, 455 *C.* 1903 [1] 561).

*2) Methyläthylpropylsulfinchlorid. + 2(6)HgCl₂, 2 + Pt(3, (*J. pr.* 2) 66, 456 *C.* 1903 [1] 561; *J. pr.* [2] 66, 527 *C.* 1903 [1] 561).

*3) Methyläthylisopropylsulfinchlorid. + 2(6)HgCl₂, 2 + PtCl₃ (*J. pr.* 2) 66, 562 *C.* 1903 [1] 561. C6H15ClS [2] 66, 526 C. 1903 [1] 561; J. pr. [2] 66, 456 C. 1903 [1] 561).
*1) Bleitriäthylchlorid (B. 37, 1127 C. 1904 [1] 1257). $C_6H_{15}ClPb$ *1) Siliciumtriäthylchlorid (Silicoheptylchlorid) (C. 1904 [1] 636). *1) 6-Chlor-2,3,5-Tribrom-1,4-Benzochinon. Sm. 302-303" (C. 1903 C₆H₁₅ClSi C₆O₂ClBr₈ [2] 550). 1) 1,2,3,5-Tetrachlor-4,6-Dinitrobenzol. Sm. 161-162° (B. 35, 3855) C₆O₄N₂Cl₄ C. 1903 [1] 21; Am. 31, 365 C. 1904 [1] 1407). *1) 1,3,5-Trichlor-2,4,6-Trinitrobenzol. Sm. 187° (Am. 31, 365 c. 1904 [1] 1407; Am. 32, 171 C. 1904 [2] 950). C6O6N8Cl3 1) Gem. Anhydrid d. Borsäure u. Trichloressigsäure. Sm. 165" (R. C₈O₆Cl₉B 36, 2223 C. 1903 [2] 420). - 6 IV -C,HON,Br, 1) 4,5,6-Tribrom-2-Oxy-1-Diazobenzolanhydrid. Zers. bei 1210 (Soc. 83, 811 C. 1903 [2] 195, 426). 1) 2,6-Dibrom-3-Nitro-4-Oxy-1-Diazobenzolanhydrid. Zers. bei 1900 C₆HO₈N₈Br₂ (Soc. 83, 810 C. 1903 [2] 195, 426). *3) 3,4,5-Tribrom-1,2-Dimitrobenzol. Sm. 160° (Am. 30, 68 C. 1903 C6HO4N2Br8 [2] 355). *1) 1,3,5-Trinitro-2,4-Dinitrobenzol (Am. 32, 300 C. 1904 [2] 1355). C6HO4N9J8 C₆H₂ON₂Cl₂ 3) 4,6-Dichlor-2-Oxy-1-Diazobenzolanhydrid. Sm. 83 81°. HCl (C. 1903 [1] 394). *1) 3,5-Dibrom-2-Oxy-1-Diazobenzolanhydrid. Sm. 140° u. Zera. C,H,ON,Br, (Soc. 83, 803 C. 1903 [2] 425). 5) 4,6-Dibrom-2-Oxy-1-Diazobenzolanhydrid. Zers. bei 140° (7. 1903 [1] 394). C6H2ON2Br4 1) 2,3,4,6-Tetrabromdiazobenzol. Sulfat (Soc. 83, 810 C. 1903 [2] 426). 5) 2,3,5-Trichlorpyridin-4-Carbonsäure. Sm. 188-189 (Sur. 83, C6H2O2NCL 400 C. 1903 [1] 841, 1141). *5) 3,4,5-Tribrom-1-Nitrobenzol. Sm. 1120 (Am. 30, 58 C. 1903 [2] C₆H₂O₂NBr₃ 354). 2) 2,4,5-Trijod-1-Nitrobenzol. Sm. 124° (C. r. 137, 1045 C. 1904 C₆H₂O₂NJ₈ [1] 266). *1) 2-Chlor-3,5,6-Tribrom-1,4-Dioxybenzol. Sm. 239" (C. 1903 [2] C₆H₂O₂ClBr₃ 550). C₆H₂O₃NBr₃ 3) 4,5,6-Tribrom-2-Nitro-1-Oxybenzol. Sm. 120-121°. Ag (Am. 30, 72 C. 1903 [2] 355). 1) 2,4,6-Tribrom-3-Nitrodiazobenzol. Sulfat (Soc. 83, 809 C. 1903 C₆H₂O₈N₈Br₈ [2] 426) 4) 3,4-Dichlor-1,2-Dinitrobenzol. Sm. 55° (B. 37, 3892 C. 1904 [2] C₆H₂O₄N₂Cl₂ 5) 4,5-Dichlor-I, 2-Dinitrobenzol. Sm. 110° (114°) (R. 21, 419 C. 1903 [1] 503; Soc. 85, 867 C. 1904 [2] 518; B. 37, 3892 C. 1904 [2] 7) 2,5-Dibrom-1,4-Dinitrobenzol. Sm. 127° (Am. 28, 456 C. 1903 C₆H₂O₄N₂Br₂ [1] 322). *1) 2,4[oder 4,6]-Dijod-1,3-Dinitrobenzol. Sm. 160° (Am. 32, 304 $C_6H_2O_4N_2J_2$ 2) 1,3-Dijod-P-Dinitrobenzol. Sm. 168,4° (J. 1875, 325; 1880, 478;

C. r. 139, 64 C. 1904 [2] 590). — II, 90.
2) 5-Chlor-1,2,4-Trinitrobenzol. Sm. 116° (B. 36, 3953 C. 1904

	. 014.
$C_6H_2O_6N_8Br$	1) 1-Brom-2, 4, 6-Trinitrobenzol. Sm. 122-123 (Am. 29, 212 C. 1903 [1] 964).
$\mathbf{C}_{6}\mathbf{H}_{2}\mathbf{N}_{2}\mathbf{C}\mathbf{I}\mathbf{J}_{8}$	1) 2,4,6-Trijod-1-Diazobenzolchlorid. Zers. oberh. 120° (B. 36, 2070 C. 1903 [2] 358).
$\mathbf{C}_{6}\mathbf{H}_{2}\mathbf{N}_{2}\mathbf{Br}_{8}\mathbf{F}$	1) 2,4,6-Tribromdiazobenzolfluorid. HF + 2H ₂ O (B. 36, 2060 C. 1903 [2] 357).
C ₆ H ₃ ON ₂ Cl ₃	1) 2,4,6-Trichlordiazobenzol. K, Nitrat, Sulfat (C. 1903 [1] 394; Soc. 83, 807 C. 1903 [2] 426).
C ₆ H ₈ ON ₂ Br	1) 6-Brom-2-Oxy-1-Diazobenzolanhydrid. Sm. 103° u. Zers. (Soc. 83, 812 C. 1903 [2] 426).
C ₆ H ₈ ON ₂ Br ₈	*4) 2,4,6-Tribrom-1-Nitrosamidobenzol. Sm. 85° (C. 1903 [1] 394; B. 36, 2072 C. 1903 [2] 358).
$\mathbf{C_6H_3O_2NCl_2}$	*1) 2,4-Dichlor-1-Nitrobenzol. Sm. 33° (Soc. 85, 868 C. 1904 [2] 518).
	 *2) 2,5-Dichlor-1-Nitrobenzol. Sm. 54° (Soc. 85, 868 C. 1904 [2] 518). *3) 3,4-Dichlor-1-Nitrobenzol. Sm. 43° (Soc. 85, 867 C. 1904 [2] 518). *11) 5,6-Dichlorpyridin-3-Carbonsäure + H₂O. Sm. 162—163° wasserfrei (B. 37, 3832 C. 1904 [2] 1614).
$\mathbf{C}_{6}\mathbf{H}_{8}\mathbf{O}_{2}\mathbf{N}\mathbf{J}_{2}$	*1) 3,4-Dijod-1-Nitrobenzol. Sm. 112,5° (C. r. 136, 1077 C. 1903 [1] 1339).
	*5) 3,5-Dijod-l-Nitrobenzol. Sm. 103° (<i>C. r.</i> 136, 236 <i>C.</i> 1903 [1] 574). 6) 2,4-Dijod-l-Nitrobenzol. Sm. 101° (<i>C. r.</i> 139, 63 <i>C.</i> 1904 [2] 590). 7) 2,6-Dijod-l-Nitrobenzol. Sm. 114° (<i>C. r.</i> 138, 1505 <i>C.</i> 1904 [2] 319; <i>Bl.</i> [3] 31, 974 <i>C.</i> 1904 [2] 1114).
$\mathbf{C}_{6}\mathbf{H}_{8}\mathbf{O}_{2}\mathbf{N}_{2}\mathbf{Br}_{8}$	*2) 4,5,6-Tribrom-2-Nitro-1-Amidobenzol. Sm. 166° (R. 21, 414 C. 1903 [1] 505; Am. 30, 74 C. 1903 [2] 355).
$\mathbf{C_6H_3O_3NBr_2}$	*1) 4, 6-Dibrom-2-Nitro-1-Oxybenzol. Sm. 117,5° (A. 333, 363 C. 1904 [2] 1117; C. 1904 [2] 1697). 7) 3,6-Dibrom-2-Nitro-1-Oxybenzol. Sm. 77°. Ba (Am. 28, 473
$\mathbf{C_6H_8O_8N_8Br_2}$	 C. 1903 [1] 323). 1) 4, 6-Dibrom-3-Nitrodiazobenzol. Sulfat (Soc. 83, 814 C. 1903 [2] 426).
$\mathbf{C_6H_3O_4NBr_2}$	3) 2,6-Dibrom-4-Nitro-1,3-Dioxybenzol. Sm. 148-149° (A. 333, 360 C. 1904 [2] 1116).
$C_6H_8O_6N_2Br$	*2) 2-Brom-4,6-Dinitro-1,3-Dioxybenzol. Sm. 191-192° (A. 333, 362 C. 1904 [2] 1116).
$\mathbf{C}_{6}\mathbf{H}_{8}\mathbf{O}_{6}\mathbf{N}_{8}\mathbf{S}$	 3-Nitro-2-Oxydiazolbenzol-5-Sulfonsäure (D. R. P. 141750 C. 1903 1324).
C ₆ H ₄ ONCl	*2) 1,4-Benzochinonchlorimid (B. 36, 2980 C. 1903 [2] 980).
$\mathbf{C}_{6}\mathbf{H}_{4}\mathbf{O}_{2}\mathbf{NCI}$	*1) 2-Chlor-1-Nitrobenzol (D.R.P. 137847 C. 1903 [1] 208). *3) 4-Chlor-1-Nitrobenzol (D.R.P. 137847 C. 1903 [1] 208).
	11) 5-Chlorpyridin-3-Carbonsäure. Sm. 170—171° (B. 37, 3834 C. 1904 [2] 1614).
$\mathbf{C_6H_4O_2NBr_8}$	2) 3, 4, 5-Tribrom-1-Methylpyrrol-2-Carbonsäure (B. 37, 2802 C. 1904 [2] 533).
$\mathbf{C_6H_4O_2NJ}$	*1) 2-Jod-1-Nitrobenzol. Sm. 49° (C. 1903 [2] 1109). *3) 4-Jod-1-Nitrobenzol. Sm. 171—177° (C. 1903 [2] 1109).
$\mathbf{C_6H_4O_9N_2Cl_2}$	*3) 4,5-Dichlor-2-Nitro-1-Amidobenzol. Sm. 176° (R. 21, 420 C. 1903 [1] 503; B. 37, 3893 C. 1904 [2] 1611).
	*4) 4,6-Dichlor-2-Nitro-1-Amidobenzol. Sm. 100° (A. 330, 17, 27 C. 1904 [1] 1140).
$C_6H_4O_2N_2Br_2$	*2) 4,5-Dibrom-2-Nitro-1-Amidobenzol. Sm. 204° (R. 21, 414 C. 1903 [1] 505).
	*4) 2, 6-Dibrom-4-Nitro-1-Amidobenzol. Sm. 204° (A. 330, 45 C. 1904 [1] 1141).
	8) 2,5-Dibrom-4-Nitro-1-Amidobenzol. Sm. 174-175° (Am. 28, 463 C. 1903 [1] 323).
$\mathbf{C_6H_4O_2N_2J_2}$	*1) 2,4-Dijod-3-Nitro-1-Amidobenzol. Sm. 125° (C. r. 138, 1504 C. 1904 [2] 319; Bl. [3] 31, 973 C. 1904 [2] 1114).
	4) 2,6-Dijod-3-Nitro-1-Amidobenzol. Sm. 149° (C. r. 138, 1504 C. 1904 [2] 319: C. r. 139, 63 C. 1904 [2] 590).
C ₆ H ₄ O ₂ N ₈ F	1) 4-Nitrodiazobenzolfluorid. 2HF $+$ H_2O (B. 36, 2061 C. 1903 [2] 357).
	4*

13) 5-Chlor-6-Oxypyridin-3-Carbonsäure. Sm. 308° u. Zers. (B. 37. C.H.O.NCl 3832 C. 1904 [2] 1614). *1) 4-Brom-2-Nitro-1-Oxybenzol. Sm. 89-90° (A. 333. 353 C. 1904 C.H.O.NBr [2] 1116). $\begin{array}{c} \mathbf{C_6H_4O_8N_2S} \\ \mathbf{C_6H_4O_8Br_2S} \end{array}$ *6) 1-Diazobenzol-4-Sulfonsäure (A. 330, 14 C. 1904 [1] 1138). *5) 3,5-Dibrombenzol-1-Sulfonsäure (Am. 29, 223 C. 1903 [1] 963). C.H.O.N.S 4) Inn. Anhydrid d. 4-Oxy-1-Diazobenzol-2-Sulfonsäure (J. pr. [2]) 69, 339 C. 1904 [2] 37). Bromid d. Benzol-1,3-Disulfinsäure. Sm. 52° (J. pr. [2] 68, 318 C. 1903 [2] 1170).
 2,6-Dijod-1-Oxybenzol-4-Sulfonsäure. (NH4, HF), (K, HF), (Rb, CaH,OaBroSo CaHAOAJaS HF) (A. 328, 147 C. 1903 [2] 992).
2) 5-[oder θ]-Brom-4-Nitro-1, 2, 3-Trioxybenzol. Sm. 122° (B. 37, C.H.O.NBr 116 O. 1904 [1] 585). *2) 1, 3-Dinitrobenzol-5-Sulfonsäure. Ba + 3H₆O (Am. 29, 218 CaH,ONS C. 1903 [1] 963). *2) 4-Chlor-2, 6-Dibrom-1-Amidobenzol. Sm. 95° (A. 333, 338) C,H,NClBr, C. 1904 [2] 1151). C₆H₄N₉BrF 1) 4-Bromdiazobenzolfluorid (B. 36, 2060 C. 1903 [2] 357) C.H.BrJF. 1) 4-Brombenzol-1-Jodidfluorid. Sm. 110° (A. 328, 139 C. 1903 [2] 990). *1) Benzoljodofluorid. Zers. bei 216° (A. 328, 135 C. 1903 [2] 990). C.H.OJF. C,H,O,NBr, 3) 2, 6-Dibrom-4-Amido-1, 3-Dioxybenzol. HCl (A. 333, 361 C. 1904 [2] 1116). 3.4-Dibrom-1-Methylpyrrol-2-Carbonsäure (B. 37, 2801 C. 1904 [2] 533). C,H,O,NS *1) 4-Nitro-1-Merkaptobenzol. Sm. 78° (J. pr. [2] 66, 553 C. 1903 [1] 508). CaH,OaN,Cl *3) 5-Chlor-2-Nitro-1-Amidobenzol. Sm. 115° (B. 36, 4027 C. 1904 [1] 294). *3) 5-Brom-2-Nitro-1-Amidobenzol (R. 21, 413 C. 1903 [1] 505). 5) 6-Jod-3-Nitro-1-Amidobenzol. Sm. 160,5° (C. r. 138, 1503 C. C6H5O2N2Br $\mathbf{C}_{\mathbf{6}}\mathbf{H}_{\mathbf{5}}\mathbf{O}_{\mathbf{2}}\mathbf{N}_{\mathbf{2}}\mathbf{J}$ 1904 [2] 319). $C_6H_5O_2N_8Br_2$ 1) 2, 6-Dibrom-4-Nitro-1, 3-Diamidobenzol. Sm. 189-190° (Am. 30. 76 C. 1903 [2] 355). C.H.O.BrS. 1) 4-Brombenzol-1-Thiosulfonsäure. Na, p-Phenylendiaminsalz (J. pr. [2] 70, 391 C. 1904 [2] 1721). *1) 4-Jodbenzol-1-Thiolsulfonsäure. p-Phenylendiaminsalz (J. pr. [2] CaHsOJS 70, 392 C. 1904 [2] 1721). 2) 4-Chlor-6-Nitro-2-Amido-1-Oxybenzol. Sm. 152° (D.R.P. 147060 CaH5ONNgC1 O. 1904 [1] 233).
 6-Chlor-2-Nitro-4-Amido-1-Oxybenzol. Sm. 130° (D. R.P. 147060) C. 1904 [1] 233). CaH,ORN,Br 3) 3-Brom-l-Amido-2-Keto-1,2-Dihydropyridin-5-Carbonsäure. Sm. 238° (B. 37, 3839 C. 1904 [2] 1615). *1) 2-Nitrobenzol-1-Sulfonsäure. K (J. pr. [2] 66, 554 C. 1903 C,H,O,NS [1] 508). *2) 3-Nitrobenzol-1-Sulfonsäure (*J. pr.* [2] 66, 559 *C.* 1903 [1] 518). *3) 4-Nitrobenzol-1-Sulfonsäure. K + H₂O (*J. pr.* [2] 66, 553 *C.* 1903 [1] 508). CaH,OaN,S *1) Amid d. 1,3-Dinitrobenzol-5-Sulfonsäure. Sm. 234-235° (Am. 29, 220 C. 1903 [1] 963). 2) 2-Nitro-1,3-Dioxybenzol-4, 6-Disulfonsäure. K₂ (B. 37, 726 C. $C_{R}H_{B}O_{10}NS_{2}$ 1904 [1] 1005). CaHaONC1 4) 3-Chlor-4-Amido-1-Oxybenzol (D.R.P. 143449 C. 1903 [2] 320). C6H6O2NBr 2) 3[oder 4]-Brom-1-Methylpyrrol-2-Carbonsäure (B. 37, 2802 C. 1904 [2] 533). $C_6H_6O_2N_2Br_2$ 2) Dilaktam d. $u\delta$ -Dibrom- $\beta\gamma$ -Diamidobutan- $\alpha\delta$ -Dicarbonsäure (B. 35, 4126 C. 1903 [1] 136) C6H6O8N8 3) P-Acetylamidothiazol-P-Carbonsaure. Sm. 166° (B. 36, 3549 C. 1903 [2] 1379). C₆H₆O₅N₂S 8) 1-Nitramidobenzol-4-Sulfonsäure. Na + H₂O, Na₂, BaH, Ba,

Ag (A. 330, 29 C. 1904 [1] 1141).

$\mathbf{C}_{\boldsymbol{\theta}}\mathbf{H}_{\boldsymbol{\theta}}\mathbf{O}_{\boldsymbol{\theta}}\mathbf{N}_{\boldsymbol{4}}\mathbf{S}$	1) 2,6-Di[Diazo]-l-Oxybenzol-4-Sulfonsäure (D. R. P. 148085 C. 1904 [1] 135).
$\mathbf{C_6H_6N_2Cl_2S}$	1) Methyläther d. 4,6-Dichlor-2-Merkapto-5-Methyl-1,3-Diazin. Sm. 64°; Sd. 153—154° ₁₈ (Am. 32, 353 C. 1904 [2] 1414).
$C_6H_7ONS_2$	1) 2-Thiocarbonyl-4-Keto-3-Allyltetrahydrothiazol. Fl. (M. 24, 504 C. 1903 [2] 836).
$C_6H_7O_2NS$	*6) Amid d. Benzolsulfonsäure. Sm. 151°. H ₂ SO ₄ (B. 37, 692 C. 1904 [1] 1074).
$\mathbf{C_6H_7O_2N_2Cl}$	3) Dimethyläther d. 6-Chlor-2,4-Dioxy-1,3-Diazin. Sm. 73° (B. 36, 2234 C. 1903 [2] 449; B. 36, 3379 C. 1903 [2] 1192).
$\mathbf{.C_6H_7O_2N_3S}$	1) Amid d. P-Acetylamidothiazol-P-Carbonsäure. Zers. oberh. 250° (B. 36, 3549 C. 1903 [2] 1379).
C ₈ H ₇ O ₈ NS	*4) Phenylsulfaminsäure. Sm. noch nicht bei 280° (D.R.P. 151134 C. 1904 [1] 1381; A. 333, 288 C. 1904 [2] 904).
C ₆ H ₇ O ₄ NS	9) 4-Amido-1-Oxybenzol-3-Sulfonsäure + H ₂ O. K, Ba (D.R.P. 150982 C. 1904 [1] 1235; D.R.P. 153123 C. 1904 [2] 574; J. pr. [2] 69, 336 C. 1904 [2] 36).
$C_6H_7O_5NS$	2) 4-Amid d. 2-Methylfuran-5-Carbonsäure-4-Sulfonsäure. Sm. $217-218^{\circ}$. K + H ₂ O, Ba + 3 H ₂ O, Pb, Ag (4m. 32, 193 C. 1904 [2] 1139).
$C_6H_7N_2CIS$	1) Aethyläther d. 4-Chlor-2-Merkapto-1,3-Diazin. Sd. 135° ₂₄ (Am. 29, 496 C. 1903 [1] 1310; Am. 31, 596 C. 1904 [2] 243).
$\cdot C_6 H_8 O N_2 S$	*4) Methyläther d. 2-Merkapto-4-Keto-6-Methyl-3,4-Dihydro-1,8-Diazin. Sm. 219° (Am. 29, 486 C. 1903 [1] 1309).
	5) Methyläther d. 2-Merkapto-4-Keto-5-Methyl-3,4-Dihydro-1,3-
	6) Aethyläther d. 2-Merkapto-4-Keto-3,4-Dihydro-1,3-Diazin.
	 Sm. 152° (Am. 29, 484 C. 1903 [1] 1309). 2-Thiocarbonyl-4-Keto-3, 6-Dimethyl-1, 2, 3, 4-Tetrahydro-1, 3-Diazin. Sm. 271—273° (A. 329, 348 C. 1904 [1] 435).
$C_6H_8O_2N_2S$	8) Methyläther d. 2-Merkapto-4, 6-Diketo-5-Methyl-3, 4, 5, 6-Tetra-
	hydro-1,3-Diazin. Zers. bei 303° (Am. 32, 353 C. 1904 [2] 1414). 9) 2-Thiocarbonyl-4,6-Diketo-5-Aethylhexahydro-1,3-Diazin
	+ xH ₂ O. Sm. 190—191° (wasserfrei) (Am. 32, 352 C. 1904 [2] 1414). 10) Aethylester d. 5-Methyl-1, 2, 3-Thiodiazol-4-Carbonsäure. Sm.
C ₆ H ₈ O ₃ N ₂ S	35° (A. 325, 177 C. 1903 [1] 646; A. 333, 6 C. 1904 [2] 780). *2) 1,2-Diamidobenzol-4-Sulfonsäure (A. 330, 23 C. 1904 [1] 1139).
	*6) 1,4-Diamidobenzol-2-Sulfonsäure + 2H ₂ O (B. 37, 2912 C. 1904 [2] 1458).
C ₆ H ₈ O ₃ N ₂ Se	1) Aethylester d. Selencyanacetylamidoameisensäure. Fl. (Ar. 241, 199 C. 1903 [2] 103).
$C_6H_8O_4N_2S$	4) 2,8-Diamido-I-Oxybenzol-4-Sulfonsäure (D.R.P. 147880 C. 1904 [1] 135; D.R.P. 148212 C. 1904 [1] 487).
	5) Diamid d. 2-Methylfuran-5-Carbonsäure-4-Sulfonsäure. Sm. 196—197° (Am. 32, 190 C. 1904 [2] 1138).
$\cdot \mathbf{C_6H_8O_6N_2S_2}$	7) Di[Hydroxylamid] d. Benzol-1,3-Disulfonsäure (1,3-Benzoldisulfhydroxamsäure). Sm. 152°. + ½ C ₆ H ₆ (G. 33 [2] 309 C. 1904 [1] 288).
$\mathbf{C_6H_8O_6N_2S_4}$	*1) 1,4-Diamidobenzol-2,5-Di[Thiosulfonsäure] $+ 2H_2O$. $K_2 + 2H_2O$ (Sec. 83, 1204 C. 1903 [2] 1328).
$\mathbf{C_6H_8O_{12}N_2S_8}$	*1) 1,4-Diamidobenzol-2,3,5,6-Tetra[Thiosulfonsäure]. K ₄ (Soc. 83, 1210 C. 1903 [2] 1328).
$\mathbf{C_6H_8N_8BrS}$	1) Aethyläther d. 5-Brom-4-Amido-2-Merkapto-1, 3-Diazin. Sm. 123—124° (Am. 31, 604 C. 1904 [2] 243).
$\mathbf{C}_{6}\mathbf{H}_{9}\mathbf{ON}_{5}\mathbf{S}$	1) $4-[\alpha-\text{Semicarbazonathyl}]-5-\text{Methyl-1}, 2, 3-\text{Thiodiazol.}$ Sm. 230° (4, 325, 176 C. 1903 [1] 646).
$C_6H_9O_4N_2CI$	1) Chloracetylamidoacetylamidoessigsäure. Sm. 178—180° (B. 36, 2114 C. 1903 [2] 346: B. 37, 2500 C. 1904 [2] 426).
$C_6H_{10}OClBr$	1) Chlorid d. α -Bromisocapronsaure. Sd. 68—71° ₁₁₋₁₂ (B. 36, 2969) Anm. C. 1903 [2] 1112; B. 37, 2492 Anm. C. 1904 [2] 425).
$\mathbf{C}_{6}\mathbf{H}_{10}\mathbf{O}_{2}\mathbf{NCl}$	*5) Aethylester d. β-Chloramidocrotonsaure (A. 329, 507 C. 1904)
$\mathrm{C_6H_{10}O_8NBr_8}$	a a a a a a a a a a a a a a a a a a a

 $C_aH_{10}O_aCl_aHg_a$ 1) Verbindung (aus d. Verb. $C_{14}H_{22}O_{11}Hg_4$) (B. 36, 3703 C. 1903 [2] 1239). 1) Amid d. αα-Dijodpentan-α-Carbonsäure (B. 37, 1275 C. 1904 [1] C,H,ONJ, 1334). 1) Aethylester d. $\alpha\beta$ -Dibrom- β -Amidobuttersäure. Fl. (C. 1904) C₆H₁,O₂NBr₂ [1] 1067). 2-Merkapto-5-[αβγ-Trioxypropyl]-4,5-Dihydrooxazol(Merkapto-arabinoxazolin).
 Sm. 172,5° (C. r. 136, 1081 C. 1903 [1] 1305).
 βγ-Dibrompropylamid d. Thiopropionsäure.
 Sm. 179° (B. 37, $C_6H_{11}O_4NS$.CaH, NBr.S 877 C. 1904 [1] 1004). γ-Brom-β-Nitro-β_γ-Dimethylbutan (B. 37, 546 C. 1904 [1] 865).
 Methyläther d. β-Brom-γ-Oximido-β-Methylbutan. Fl. (B. 37. 540 C. 1904 [1] 865).
 Amid d. γ-Brompentan-γ-Carbonsäure. Sm. 66—67° (C. 1904 [2] 667° (C. 1904 [2] 6 C₆H₁₂ONBr [2] 1666). $C_6H_{12}ON_2S$ 2) Amid d. α-Acetylamidothioisobuttersäure. Sm. 162° (B. 37, 1923 C. 1904 [2] 196).
1) Diisopropyläther-ββ'-Diquecksilberjodid (B. 36, 3705 C. 1903 $C_6H_{12}OJ_2Hg_2$ [2] 1239). *1) $Di[\beta$ -Amidoathyl] disulfid- $\beta\beta'$ -Dicarbonsaure (Cystin) (B. 36, 2720 $C_0H_{12}O_4N_2S_2$ C. 1903 [2] 827; H. 38, 557 C. 1903 [2] 389; H. 39, 350 C. 1903 [2] 792). $\mathbf{C}_{6}\mathbf{H}_{12}\mathbf{N}_{4}\mathbf{Cl}_{2}\mathbf{J}_{2}$ 1) Hexamethylenamindichlorojodid (C. r. 136, 1472 C. 1903 [2] 297). *1) Diäthylthetinchlorid. + 6 HgCl₂ (J. pr. [2] 66, 465 C. 1903 [1] $C_6H_{13}O_2CIS$ 1) Dipropylamidodichlorphosphin. Sd. 220-2230 (A. 326, 155 C. C₆H₁₄NCl₂P 1903 [1] 761). C6H14NCl4P 1) Dipropylamidophosphortetrachlorid. + PCl₅ (A. 326, 159 C. 1903 [1] 761). 5) Aethyläther d. Oxytetramethylammoniumchlorid. 2 + PtCl. C₆H₁₆ONCl - AuCl_s (A. 334, 63 C. 1904 [2] 949). C₆H₁₆O₂NCl 3) Dimethyläther d. aa'-Dioxytetramethylammoniumchlorid. 2+ PtCl₄, + AuCl₈ (A. 334, 57 C. 1904 [2] 949).

1) Dimethylmonamid d. Phosphorsäurediäthylester. Sd. 85 bis $C_6H_{16}O_8NP$ 90% (A. 326, 180 C. 1903 [1] 819). C₆H₁₈N₈SP 1) Tri[Aethylamid] d. Thiophosphorsäure. Sm. 68° (4. 326, 206 C. 1903 [1] 821) 1) 5-Chlor-2, 4, 6-Tribrom-1, 3-Dinitrobenzol. C₆O₄N₂ClBr₈ Sm. 208° (Am. 31,

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375 C. 1904 [1] 1408).

C.HO,NCIBr. 1) 3-Chlor-2,4,6-Tribrom-l-Nitrobenzol. Sm. 149-150° (A. 330, 26 C. 1904 [1] 1140). ·C₆H₂O₈N₂Br₂S 3) 2,6-Dibrom-1-Diazobenzol-4-Sulfonsäure (A. 330, 37 C. 1904 [1] 1141). 1) 2,4,6-Trichlorphenylmonamid d. Phosphorsäuredichlorid. Sm. C6H8ONCl5P 128° (4. 326, 230 C. 1903 [1] 867). *2) 6-Chlor-4-Brom-2-Nitro-1-Oxybenzol. Sm. 112° (C. 1904 [2] CaHaOaNClBr 1697). CaHaOaNBrJ *1) 4-Brom-6-Jod-2-Nitro-1-Oxybenzol. Sm. 104,2° (C. 1904 [2] 1697). *1) Chlorid d. 1,3-Dinitrobenzol-5-Sulfonsäure. Sm. 98-99° (Am. C6H3O6N2CIS 29, 220 C. 1903 [1] 963). C6H4ONCl4P 1) 2,4-Dichlorphenylmonamid d. Phosphorsäuredichlorid. Sm. 126° (A. 326, 228 C. 1903 [1] 867). 1) 4-Brombenzol-1-Jodoffuorid. C₆H₄OBrJF₂ Zers. bei 225° (A. 328, 137 C. 1903 [2] 990). 1) 2,5,6-Trichlor-1-Amidobenzol-3-Sulfonsäure (D.R.P. 139327 C. C₆H₄O₅NCl₅S 1903 [1] 747). 1) Dichloramid d. 3-Nitrobenzol-1-Sulfonsäure. Sm. 121° (C. 1904 C₆H₄O₄N₂Cl₂S $C_6H_4O_4N_2Cl_4S_2$ 1) Di[Dichloramid] d. Benzol-1, 3-Disulfonsäure. Sm. 128° (C. 1904 [2] 435).

 $\mathbf{C_{3}H_{4}O_{5}N_{2}Cl_{2}S}$ 1) 3,6-Dichlor-2-Oxydiazobenzol-5-Sulfonsäure (D.R.P. 139327 C. 1903 [1] 747). 2,6-Dibrom-1-Nitrobenzol-4-Sulfonsäure. Na + H₂O, Na₂, Ca, C6H4O5N9Br9S $Ba + 2^{1}/_{2}H_{2}O$ (A. 330, 42 C. 1904 [1] 1141). *1) Dichloramid d. Benzolsulfonsäure. Sm. 7 Sm. 76° (C. 1904 [2] 435). C₆H₅O₂NCl₂S 2) 4,6-Dichlor-1-Amidobenzol-3-Sulfonsäure (A. 330, 55 C. 1904 C6H5O8NCl2S [1] 1142). *4) 4,6-Dibrom-1-Amidobenzol-3-Sulfonsäure (A. 330, 57 C. 1904 C₆H₅O₈NBr₂S [1] 1142). 1) 3-Nitrophenylmonamid d. Phosphorsäuredichlorid. C₆H₅O₃N₂Cl₂P (A. 326, 237 C. 1903 [1] 867). 2) 4-Nitrophenylmonamid d. Phosphorsäuredichlorid. Sm. 156° (A. 326, 237 C. 1903 [1] 867). 2) 2-Chlor-3-Nitro-1-Amidobenzol-5-Sulfonsäure (D.R.P. 141538 C6H5O5N2CIS C. 1903 [1] 1381; D.R.P. 141750 C. 1903 [1] 1324). C, H, ONCIHg 1) Verbindung (aus Quecksilberacetamid u. salzs. Anilin) (M. 23, 1157 C. 1903 [1] 385). *1) Phenylamid d. Phosphorsäuredichlorid. Sm. 84° (A. 326, 223 CaHaONClaP C. 1903 [1] 866). 1) 2,4-Dichlorphenylmonamid d. Phosphorsäure. Sm. 167°. Cu C₆H₆O₃NCl₂P (A. 326, 228 C. 1903 [1] 867). $C_6H_6O_8NBr_2P$ 1) 2,4-Dibromphenylmonamid d. Phosphorsäure. Cu (A. 326, 235) C. 1903 [1] 867). 4) 4-Chlor-2-Amido-1-Oxybenzol-P-Sulfonsäure (D.R.P. 144618 C. 1903 [2] 974). C6H6O4NCIS 1) Aethyläther d. 4-Chlor-5-Brom-2-Merkapto-1, 3-Diazin. Sm. 27° C,H,N,ClBrS (Am. 31, 603 C. 1904 [2] 243).1) Aethyläther d. 5-Brom-2-Merkapto-4-Keto-3,4-Dihydro-1,3-C6H7ON2BrS Diazin. Sm. 189° (Am. 31, 603 C. 1904 [2] 243).
1) 4-Bromphenylmonamid d. Phosphorsäure. Sm. 158° (A. 326, C6H7O8NBrP 231 C. 1903 [1] 867). 1) 2-Chlor-1, 3-Diamidobenzol-5-Sulfonsäure + H₂O (D.R.P. 150373 C₆H₇O₃N₂ClS C. 1904 [1] 1044). 3-Methyl-4,5-Dihydro-1,2-Oxazin[6]-6-Methylquecksilberjodid. Sm. 122° (A. 329, 180 C. 1903 [2] 1413). C₆H₁₀ONJHg 1) Diisopropyläther-ββ'-Diquecksilberbromid (B. 36, 3705 C. 1903 CaH12OBr2Hg2 [2] 1239). *1) Dipropylmonamid d. Phosphorsäuredichlorid. Sd. 243-244° $C_6H_{14}ONCl_2P$ (A. 326, 184 C. 1903 [1] 820). *1) Dipropylmonamid d. Thiophosphorsäuredichlorid. Sd. 240—245° C6H14NCl2SP u. Zers. (A. 326, 212 C. 1903 [1] 822). 1) Diäthylmonamid d. Aethylphosphinsäuremonochlorid. Sd. 90 CaH15ONCIP bis 92°₁₈ (A. 326, 155 C. 1903 [1] 761). 1) Diäthylmonamid d. Aethylphosphorsäuremonochlorid. Sd. 1130, 18 C6H15O2NClP (A. 326, 189 C. 1903 [1] 820). 1) Di[Propylamid] d. Phosphorsäuremonochlorid. Sm. 88° (A. 326, C₆H₁₆ON₂ClP 176 C. 1903 [1] 819). 1) Dimethylmonamid d. Thiophosphorsäurediäthylester. Sd. 107045 C,H,O,NSP (A. 326, 210 C. 1903 [1] 822). 2) Aethylmonamid d. Thiophosphorsäurediäthylester. Sd. 94%,

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(A. 326, 203 C. 1903 [1] 821).

 C₆H₃ONCl₂Br₈P
 1) 2,4,6-Tribromphenylmonamid d. Phosphorsäuredichlorid. Sm. 148° (A. 326, 236 C. 1903 [1] 867).

 C₆H₄ONCl₂Br₂P
 1) 2,4-Dibromphenylmonamid d. Phosphorsäuredichlorid. Sm. 134° (A. 326, 234 C. 1903 [1] 867).

 C₆H₅ONCl₂BrP
 1) 3-Bromphenylmonamid d. Phosphorsäuredichlorid. Sm. 87° (A. 326, 234 C. 1903 [1] 867).

 2) 4-Bromphenylmonamid d. Phosphorsäuredichlorid. Sm. 98° (A. 326, 230 C. 1903 [1] 867).

 C₆H₅O₆N₂ClBr₂S
 1) Verbindung (aus 2,6-Dibrom-1-Diazobenzol-4-Sulfonsäure). Na, Ba (A. 330, 39 C. 1904 [1] 1141).

C.-Gruppe.

- *1) Methylbenzol. Sm. -97 bis -99° (B. 36, 2117 C. 1903 [2] 350; B. 36, 3086 C. 1903 [2] 990; C. 1904 [1] 1195).
 *3) Suberen (Suberoterpen) Sd. 120-126° (A. 827, 68 C. 1903 [1] 1124). C,H,
- C7H10 *13) $\beta\delta$ -Dimethyl- $\alpha\gamma$ -Pentadien. Sd. 92—93°₇₅₀ (B. 37, 3579 C. 1904 [2] C, H12 1376).
 - 1376).
 *14) 5-Methyl-1, 2, 3, 4-Tetrahydrobenzol. Sd. 106—107° (109°₇₈₈) (A. 289, 343; B. 35, 2494, 2823; A. 329, 369 C. 1904 [1] 516; C. 1904 [1] 1213).
 19) 1-Methyl-?-Tetrahydrobenzol. Sd. 106—107° (C. 1903 [1] 329).
 20) r-2-Methyl-1, 2, 3, 4-Tetrahydrobenzol. Sd. 103,5₇₆₇ (C. 1904 [1] 1213).
 21) 2-Methyl-1, 2, 3, 4-Tetrahydrobenzol. Sd. 101,9°₇₅₈ (103°₇₆₀) (C. 1903 [2] 289; B. 37, 1377 C. 1904 [1] 1441; C. 1904 [1] 1213).
 22) Kohlenwasserstoff (aus 1-Oxy-1-Methylhexahydrobenzol). Sd. 108°₇₆₀ (C. r. 138, 1323 C. 1904 [2] 219; C. r. 139, 344 C. 1904 [2] 704).
 *8) Suberan. Sd. 117—117,3°₇₈₆ (C. 1903 [1] 568; A. 327, 63 C. 1903 [1] 1124).
- C, H14 1124).
 - *9) Methylhexahydrobenzol (C. 1904 [1] 1345).
- 8) d-7-Methylhexan. Sd. 90-92° (B. 37, 1046 C. 1904 [1] 1248). C, H,

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- $C_7H_3Br_5$ *1) 2,3,4,5,6-Pentabrom-1-Methylbenzol. Sm. 182° (C. 1903 [2] 1052). C 55.3 - H 2.6 - O 42.1 - M. G. 152.C,H,O,
 - 1) 1, 2-Carbonat d. 1, 2, 3-Trioxybenzol. (3-Oxy-1, 2-Phenylenester d.
- Kohlensäure). Sm. 132—133° (B. 37, 106 C. 1904 [1] 584).
 *1) 1,4-Pyron-2,6-Dicarbonsäure. Sm. 262°. Na (B. 37, 3744 C. 1904 [2] C7H4O8 1538).
- *8) 4-Chlor-1-Trichlormethylbenzol (C. r. 136, 241 C. 1903 [1] 570) $\mathbf{C}_7\mathbf{H}_4\mathbf{Cl}_4$
 - *9) 3,4,5-Trichlor-1-Chlormethylbenzol. Sm. 97-98° (Soc. 85, 1285 C. 1904 2] 1293).
 - 10) 2,3,4,5-Tetrachlor-1-Methylbenzol. Sm. 86-88° (Soc. 85, 1280 C. 1904) [2] 1293).
 - 11) 2,3,4,6-Tetrachlor-1-Methylbenzol. Sm. 91,5—92° (Soc. 85, 1280 C. 1904 [2] 1293).
 - 12) 2,3,5,6-Tetrachlor-1-Methylbenzol. Sm. 93-94° (Soc. 85, 1281 C. 1904) [2] 1293).
- *2) Nítril d. Benzolcarbonsäure. Sd. 190,6% (B. 36, 13 C. 1903 [1] 398). C7H5N 5) Anhydro-3-Amidobenzol-1-Carbonsäurealdehyd (D.R.P. 62950). —
- C7H5Cl 1) Verbindung (aus 4-Chlor-1-Chlormethylbenzol) = $(C_7H_5Cl)_n$ (R. 23, 100 C. 1904 [1] 1136).
- *1) Benzotrichlorid (B. 36, 3060 C. 1903 [2] 945; C. r. 136, 241 C. 1903 [1] 570; C. 1903 [2] 1431). C₇H₅Cl₈
- C,H,Br 1) Verbindung (aus 4-Brom-1-Chlormethylbenzol) = $(C_7H_5Br)_n$ (R. 23, 100 C. 1904 [1] 1136).
- C_7H_6O
- *1) Aldehyd d. Benzolcarbonsäure. Anilinsulfit, Anilinbisulfit, Anilinanhydrosulfit (A. 325, 357 C. 1903 [1] 696).

 *4) Benzolcarbonsäure. (NH₄)H, KH (D.R.P. 138790 C. 1903 [1] 546; C. 1903 [2] 657; D.R.P. 139956 C. 1903 [1] 857; D.R.P. 140999 C. 1903 [1] 1106; B. 36, 1798 C. 1903 [2] 283; Soc. 83, 1442 C. 1904 [1] 510).

 *5) Aldehyd d. 2-Ovylengol. L. Carbonsöure. Sig. 195, 1069 (1. Apriling Str. 195, 1069). $C_7H_6O_2$
 - *5) Aldehyd d. 2-Oxybenzol-1-Carbonsäure. Sm. 195-196. sulfit, + Anilinbisulfit, + Anilinanhydrosulfit (A. 325, 359 C. 1903 [1] 696; M. 24, 833 C. 1904 [1] 367; C. 1904 [2] 436).

 *6) Aldehyd d. 3-Oxybenzol-1-Carbonsäure (M. 24, 834 C. 1904 [1] 367).

 *7) Aldehyd d. 4-Oxybenzol-1-Carbonsäure (M. 24, 835 C. 1904 [1] 367).

 - 11) Verbindung (aus p-Kresol). Sm. 120°; Zers. bei 180° (B. 36, 2032 C. 1903 [2] 360).
- *2) Salicylsäure. KH (C. 1903 [1] 1026; G. 32 [2] 311 C. 1903 [1] 579; Soc. 83, 1444 C. 1904 [1] 510). $\mathbf{C}_{7}\mathbf{H}_{8}\mathbf{O}_{8}$
 - *4) 4-Oxybenzol-I-Carbonsäure. (NH₄)H, KH, Bi (Bl. [3] 31, 36 C. 1904 [1] 510; Soc. 83, 1445 C. 1904 [1] 510).
 - *8) Aldehyd d. 2,4-Dioxybenzol-1-Carbonsäure. Sd. 220—228°22 (D.R.P. 155731 C. 1904 [2] 1631).

- $C_7H_6O_3$ *10) Aldehyd d. 3,4-Dioxybenzol-1-Carbonsäure (M. 24, 836 C. 1904 [1] 367; D.R.P. 155731 C. 1904 [2] 1631). *13) Benzoylsuperoxyd (Benzopersäure) (Am. 29, 200 C. 1903 [1] 959). *15) Isosalicylsäure (C. 1903 [1] 80). 16) Aldehyd d. 2,3-Dioxybenzol-1-Carbonsäure. Sd. 160—170₂₂ (D.R.P. 155731 C. 1904 [2] 1631).

 C₇H₈O₄

 *4) 2,4-Dioxybenzol-1-Carbonsäure. Bi (Bl. [3] 31, 37 C. 1904 [1] 510).

 *5) 2,5-Dioxybenzol-1-Carbonsäure. Bi (Bl. [3] 31, 37 C. 1904 [1] 510).

 *7) 3,4-Dioxybenzol-1-Carbonsäure. Bi (Bl. [3] 31, 176 C. 1904 [1] 869).

 18) 2-Methyläther d. 2,6-Dioxy-1, 4-Benzochinon (M. 23, 954 C. 1903) [1] 286). *2) Pyrogallolcarbonsäure. Bi (Bl. [3] 29, 680 C. 1903 [2] 492). $C_7H_6O_5$ 7) γ-Keto-αδ-Pentadiën-αε-Dicarbonsäure. Sm. oberh. 2306 u. Zers. (B. 37, 3297 *C.* **1904** [2] 1041). 8) 1,4-Pyran-2,6-Dicarbonsäure. Zers. bei 250° (C. r. 139, 138 C. 1904 [2] 602). C7H6N2 *4) Nitril d. 2-Amidobenzol-1-Carbonsäure. Sm. 48-49°; Sd. 267-268°, (C. 1903 [1] 174; B. 36, 804 C. 1903 [1] 977). *5) Nitril d. 3-Amidobenzol-1-Carbonsäure. Sm. 53-53,5%. HCl (C. 1904) [2] 101). *6) Nitril d. 4-Amidobenzol-I-Carbonsäure. Sm. 85,5-86° (C. 1903 [2] 113) 5) Nitril d. Phenylazoamidoameisensäure (1-Phenyl-2-Cyantriazen). Sm. 720 C,H,N, u. Zers. K + H₂O (B. 37, 2376 C. 1904 [2] 321).

 C₇H₆Cl₂ *1) Dichlormethylbenzol. Sd. 205-206° (C. r. 136, 241 C. 1903 [1] 570;

 B. 36, 3060 C. 1903 [2] 945; C. 1903 [2] 1431).

 *2) 4-Chlor-1-Chlormethylbenzol. Sm. 29°; Sd. 214° (C. r. 136, 241 C. 1903 [1] 570). 9) 2-Chlor-1-Chlormethylbenzol. Sd. 213-214° (C. r. 136, 241 C. 1903) [1] 570). *1) Benzylidenimin (C. r. 137, 522 C. 1903 [2] 1060).
 9) polym. Methylenamidobenzol (C. 1903 [2] 656).
 *2) 6-Amidoindazol. (2HCl, PtCl₄), + 1,3,5-Trinitrobenzol (B. 37, 2580) C_7H_7N C,H,N, C. 1904 [2] 659). 8) 7-Amidoindazol. Sm. 155-156° (B. 37, 2577 C. 1904 [2] 658). *1) Chlormethylbengol C3 450

 *2 - Carbonsaure. Sm. 152—153° (156°).

 *1) Chlormethylbenzol (D.R.P. 139552 C. 1903 [1] 977). — IV, 1149.

 *2) 2-Chlor-1-Methylbenzol C3 450

 *3 - C 1903 [2] 1431). C_7H_7C1 *2) 2-Chior-I-Methylbenzol. Sd. 156—158° (C. r. 135, 1121 C. 1903 [1] 283).

 *3) 3-Brom-I-Methylbenzol (B. 37, 994 C. 1904 [1] 1415).

 *3) 3-Oxy-I-Methylbenzol (D.R.P. 141421 C. 1903 [1] 1197; D.R.P. 148703 C. 1904 [1] 553; D.R.P. 152652 C. 1904 [2] 168).

 *4) 4-Oxy-I-Methylbenzol. + H₃PO₄ (D.R.P. 141421 C. 1903 [1] 1197 R. 21, 355 C. 1903 [1] 151; D.R.P. 148703 C. 1904 [1] 553).

 *5) Methyläther d. Oxybenzol. + AlCl₃ (Ar. 242, 96 C. 1904 [1] 1005 Soc. 85, 1107 C. 1904 [2] 976).

 *4) 2.6-Dioxy-I-Methylbenzol. Sm. 116—121°. Sd. 264° (M. 24, 906). C,H,Br C_7H_8O C,H,O, *4) 2,6-Dioxy-1-Methylbenzol. Sm. 116—121°; Sd. 264°₇₆₀ (M. **24**, 906 C. 1904 [1] 513). *11) Guajakol (C. 1903 [1] 635). *12) Monomethyläther d. 1,3-Dioxybenzol. Sd. 243° (A. 327, 116 C. 1903 [1] 1214). *13) Monomethyläther d. 1,4-Dioxybenzol. Sm. 53° (A. 327, 116 C. 1903 [1] 1214). 19) 1-Oxy-4-Keto-1-Methyl-1,4-Dihydrobenzol (p-Toluchinol). Sm. 74-75° (B. 36, 2031 C. 1903 [2] 360).
 - [1] 825).

 C₇H₈O₈
 *2) 2,4,6-Trioxy-1-Methylbenzol. Sm. 214° (A. 329, 272 C. 1904 [1] 795).
 *8) 2,5-Dimethylfuran-3-Carbonsäure. Sm. 135—135,5° (B. 37, 2189 C. 1904 [2] 240).
 - *30) 1-Methyläther d. 1, 2, 4-Trioxybenzol. Sm. 66-67° (M. 25, 810 C. 1904 [2] 1119).

20) δ-Methyl-α-Pentin-α-Carbonsäure. Sm. 98° (C. r. 136, 554 C. 1903

*31) Monomethyläther d. 1, 3, 5-Trioxybenzol. Sm. 80° (A. 329, 273 C. 1904 [1] 795).

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7 II.
                                           36) 1-Methyläther d. 1,2,3-Trioxybenzol.
                                                                                                                                                                                                                                                               Sm. 37-40°; Sd. 146-147°,
                                                             1-Methyladio 6. 1904 [2] 1118; M. 25, 813 C. 1904 [2] 1119).
C,H,O,
                                           (M. 25, 3.119). 37) 2-Methyläther d. 1, 2, 3-Trioxybenzol. Sm. 85-87°; Sd. 154-155°<sub>24</sub>

    (M. 20), of a constant of the co
                                            (Soc. 55, 1904)
Aethylester d. Isobrenzschleimsäure. Sm. 52° (C. r. 137, 992 C. 1904)
   C_7H_8O_4 *13) Isoterebilensäure. Ca + H_2O, Ba + 2H_2O (A. 330, 321 Anm. C. 1904)
                                                               [1] 291).
                                                             [1] 928).
                                       *14) Isoheptodilakton (A. 330, 316 C. 1904 [1] 927; A. 331, 106 C. 1904
                                                 7) Anhydrid d. \beta-Acetoxylpropan-\alpha \gamma-Dicarbonsäure. (Bl. [3] 29, 1014 C. 1908 [2] 1315).
                                                            [1] 931).
                                                                                                                                                                                                                                                                                                                                     Sm. 87—88°
    C_7H_8O_5
                                                 (Bl. [3] 29, 1010 (100 c) (10
                                                             † 36, 470 C. 1903 [1] 627).
                                             13) αε-Diketopentan-αε-Dicarbonsäuro. Sm. 127° (C. r. 139, 138 C. 1904
     C7H8O8
                                                               [2] 602).
                                            14) 1-Methyl-R-Trimethylen-2, 2, 3-Tricarbonsäure. Zers. bei 215° (185°?).
                                            14) \frac{1-\text{NESSLY}}{\text{Ca}_3} + 8H<sub>2</sub>O, Ag<sub>3</sub> (B. 17, 2833; B. 36, 1086 C. 1903 [1] 1126). 

\frac{1}{\text{Ca}_3} + \frac{1}{\text{Ca}_3} + \frac{1}{\text{Ca}_3} + Anhydrid d. \beta-Oxypropanmethyläther-\alpha\beta\gamma-Tricarbon-
15) \alpha\beta [oder \alpha\gamma] - Anhydrid divina) \frac{1}{\text{Ca}_3} + \frac{1
                                                             säure (Methylocitronenanhydridsäure). Sm. 131° (B. 37, 3970 C. 1904 [2]
                                                             1605).
                                              *3) Methyleneitronensäure. Na<sub>2</sub> (C. 1903 [2] 1344; D.R.P. 150949 C. 1904
      C_7H_8O_7
                                                             [1] 1379).
                                              *2) Propan-\alpha\beta\beta\gamma-Tetracarbonsäure. Sm. 151° (J. pr. [2] 68, 165 C. 1903
       C_7H_8O_8
                                                   [2] (80c. 81, 1553 C. 1903 [1] Methylather d. Selenobenzol. Sd. 200-201 (80c. 81, 1553 C. 1903 [1]
                                                              [2] 760).
       C,H,Se
                                                              22, 144).
                                                  1) Aucubigenin (C. r. 138, 1114 C. 1904 [1] 1652).
                                              1) Augustianin. Phosphorigaures Salz (A. 326, 151 C. 1903 [1] 760).
       C_7H_0O_8
                                          *2) Benzylamin. Analysis Saiz (A. 326, 151 C. 1903 [1] 760).

*3) 2-Amido-1-Methylbenzol (A. 327, 108 C. 1903 [1] 1213).

*5) 4-Amido-1-Methylbenzol (A. 327, 108 C. 1903 [1] 1213).

*10) 2,4-Dimethylpyridin. HCl, (HCl, AuCl<sub>3</sub>), HBr (B. 37, 2065 C. 1904 [2]
       C_7H_9N
                                         *11) 2,5-Dimethylpyridin. Sd. 159—160°. (HCl, 6HgCl<sub>2</sub>), (2HCl, PtCl<sub>4</sub> + 2H<sub>2</sub>O), (HCl, AuCl<sub>2</sub>), Pikrat (C. 1903 [1] 1034; B. 37, 2062 C. 1904 [2] 123). 
*12) 2,6-Dimethylpyridin. (HCl, HgCl<sub>2</sub>), (HCl, AuCl<sub>3</sub>) (B. 36, 2907 C. 1903 [200].
                                          *14) 3,5-Dimethylpyridin. Sd. 171°. (2 HCl, PtCl<sub>4</sub>), (HCl, AuCl<sub>3</sub>), Pikrat (C. 1903 [1] 1034; B. 37, 2064 C. 1904 [2] 123).

17) 2,3-Dimethylpyridin. Sd. 163—164°<sub>768</sub>. (HCl, 2 HgCl<sub>2</sub>), (2 HCl, PtCl<sub>2</sub>).
                                                               [2] 889).
                                                              (HCl, AuCl<sub>8</sub>) (Soc. 83, 764 C. 1903 [2] 443).
                                                *1) Phenylguanidin. Sd. 50-60°. HNO<sub>5</sub>, Pikrat (B. 37, 1682 C. 1904 [1]
         C_7H_9N_8
                                                              1491).
                                                    4) Diazobenzolmethylamid. Sm. 37-37,5° (B. 36, 911 C. 1903 [1] 974).
                                               4) 1-Keto-5-Methyl-1,2,3,4-Tetrahydrobenzol (B. 37, 1672 C. 1904 [1]
         C,H,0
                                                              1606).
                                               *9) 4-Keto-5-Methyl-1, 2, 3, 4-Tetrahydrobenzol. Sd. 178-181° (C. 1903)
                                                              [1] 329; A. 329, 374 C. 1904 [1] 517).
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C₇H₁₀O₂ *7) α -Hexin- α -Carbonsäure. Sd. 140—142°₂₄ (C. r. 136, 553 C. 1903 [1] 824]. *15) $\beta\delta$ -Hexadiën- β -Carbonsäure. Sm. 90—92°. Cu, Ag (C. 1903 [2] 556). 19) 2-Keto-1-Oxymethylenhexahydrobenzol. Sd. 98—100°₅₅ (A. 329, 117 C. 1903 [2] 1322).

C. 1903 [2] 1322.

20) 3-Keto-4-Oxymethylen-1-Methyl-R-Pentamethylen. Sm. 53—54°; Sd. 105—11292 (A. 329, 116 C. 1903 [2] 1322).

20) 3. 105—112° (A. 329, 116 C. 1903 [2] 1322). 21) ηγ-Dimethyl-α-Butin-α-Carbonsäure. Sm. 47—48°; Sd. 110° (b. 10° (c. r. 136, 553 C. 1903 [1] 824; Bl. [3] 29, 654 C. 1903 [2] 487).

136, 553 C. 1905 [1] 624, 55. [6] 25, 654 C. 1903 [2] 487). 22) 1,2,3,4-Tetrahydrobenzol-2-Carbonsäure. Sm. 13°; Sd. 237°,48 (Soc. 85, 431 C. 1904 [1] 1082, 1439).

23) Lakton d. η-Methyl-η-Oxymethyl-α-Buten-α-Carbonsäure. Sm. 177° (M. 25, 13 0. 1904 [1] 718).

- $C_7E_{10}O_2$ 24) Methylester d. α -Pentin- α -Carbonsäure. Sd. $80-82^{\circ}_{23}$ (C. r. 136, 553 C. 1903 [1] 824).
 - 25) Methylester d. γ-Methyl-α-Butin-α-Carbonsäure. Sd. 68—69°₂₀ (C. r. 136, 553 C. 1903 [1] 824).
 *1) s-Diacetylaceton. Na₂ + H₂O (Soc. 85, 976 C. 1904 [2] 711).
- C₇H₁₀O₈ *1) s-Diacetylaceton. Na₂ + $_{13}$ O (500. Co, ...) *19) Anhydrid d. cis- $_{\beta}$ -Methylbutan- $_{\alpha}$ y-Dicarbonsäure. 126 242 C 1903 [1] 565: Soc. 83, 357 C. Sd. 273-276° (255°₇₆₅) (C. r. 136, 243 C. 1903 [1] 565; Soc. 83, 357 C. 1903 [1] 389, 1122).
 - *20) Anhydrid d. β-Methylbutan-βγ-Dicarbonsäure. Sm. 33° (Soc. 85, 551 C. 1904 [1] 1485).
 - 37) 4-Ketohexahydrobenzol-1-Carbonsäure + H₂O. Sm. 68°; Sd. 210°₈₀ (Soc. 85, 424 C. 1904 [1] 1082, 1439).
 - 38) Anhydrid d. 1- β -Methylbutan- $\gamma\delta$ -Dicarbonsäure. Sd. 138—140% (B. **36**, 1751 *C*. **190**3 [2] 116).
- $C_7H_{10}O_4$ *10) α -Penten- $\alpha\beta$ -Dicarbonsäure (4. 331, 127 C. 1904 [1] 932). *16) trans- β -Penten- $\beta\delta$ -Dicarbonsäure. Sm. 147° (C. r. 136, 692 C. 1903 [1] 960; Bl. [3] 29, 1020 C. 1903 [2] 1315).

 - [1] 900; B. [3] 29, 1020 C. 1903 [2] 1510).
 *18) β-Methyl-α-Buten-γδ-Dicarbonsäure (A. 331, 104 C. 1904 [1] 931).
 *21) Terakonsäure. Sm. 164° u. Zers. (B. 35, 4322 C. 1903 [1] 282; B. 36, 197 C. 1903 [1] 443; A. 331, 97 C. 1904 [1] 931).
 *37) Isoterebinsäure. Ca + 2H₂O (A. 330, 321 Anm. C. 1904 [1] 928).
 *61) trans-γ-Methyl-α-Buten-αγ-Dicarbonsäure. Sm. 163° (172°) (C. r. 136, 692 C. 1903 [1] 960; Soc. 83, 17 C. 1903 [1] 76, 443; Bl. [3] 29, 1019 C. 1003 [2] 1915. C. 1903 [2] 1315).
 - *62) cis-γ-Methyl-α-Buten-αγ-Dicarbonsäure. Sm. 134—135° (C. r. 136, 382 C. 1903 [1] 697; C. r. 136, 692 C. 1903 [1] 960).
 *69) αγ-Diketohexan-α-Carbonsäure. Na (Soc. 81, 1490 C. 1903 [1] 138).

 - *70) γε-Diketo-β-Methylpentan-ε-Carbonsäure. K (Soc. 81, 1488 C. 1903 [1] 138)
 - *73) γ-Methyl-α-Buten-βγ-Dicarbonsäure. Sm. 142°. Ag. (Soc. 83, 1388 C. 1904 [1] 159, 435).
 - 79) β -Penten- $\gamma\delta$ -Dicarbonsäure ($\alpha\gamma$ -Dimethylitakonsäure). Sm. 148—150° u. Zers. (B. 37, 1618 C. 1904 [1] 1403).
 - 80) isom. β-Penten-βγ-Dicarbonsäure (Methyläthylfumarsäure?). Sm. 202°.
 Ca, Ba (B. 37, 1618 C. 1904 [1] 1403).
 - Sm. 135—137° (Soc. 83, 15
 - 81) cis-γ-Methyl-α-Buten-αγ-Dicarbonsäure.
 C. 1903 [1] 76, 443).
- 82) Săure (aus Pilopinsaure). Sm. 190°. Ag₂ (Soc. 79, 1342). *III, 688. 83) βδ-Lakton d. δ-Oxypentan-βγ-Dicarbonsaure. Sm. 131°; Sd. 195°₁₄. Ag (B. 37, 1615 C. 1904 [1] 1403). C₇H₁₀O₅*13) Oxyisoterebinsaure. Ca + H₂O, Ba + 2H₂O (A. 330, 315 C. 1904 [1] 927; A. 330, 321 C. 1904 [1] 928).
- 31) Formalmethylenarabinosid. Sd. 155°_{32} (R. 22, 162 C. 1903 [2] 108). 32) Formalmethylenarylosid. Sm. $56-57^{\circ}$ (R. 22, 161 C. 1903 [2] 108). 33) Oxylaktonsäure (aus Isoheptodilakton). Ba (A. 330, 322 C. 1904 [1] 928). *8) Butan- $\alpha\beta\delta$ -Tricarbonsäure. Sm. 122° (C. 1903 [1] 628; Soc. 85, 612 C. 1904 [1] 1254, 1553).
- $C_7H_{10}O_7$ 10) β -Oxypropanmethyläther- $\alpha\beta\gamma$ -Tricarbonsäure + H_2O (Methylocitronensaure). Sm. 98-99° (130-131° wasserfrei). Ag, (A. 327, 230 C. 1903 [1] 1406).
- 4) Monoformalschleimsäure + H₂O. Sm. 175° (192°) (R. 21, 320 C. 1903 $C_7H_{10}O_8$ [1] 138).
- $C_7H_{10}N_2$ 26) 2-[β -Amidoäthyl]pyridin. Sd. 92-93 $^{\circ}_{12}$. (2HCl, PtCl₄ + 2H₂O), HBr (B. 37, 171 C. 1904 [1] 673).
 - 27) Pyrazol (aus 2-Semicarbazon-1-Oxymethylenhexahydrobenzol). (HCl, (2HCl, PtCl₄), (HCl, AuCl₂) (A. 329, 118 C. 1903 [2] 1322).
 - 28) Pyrazol (aus 3-Semicarbazon-4-Oxymethylen-1-Methyl-R-Pentamethylen. Fl. (2 HCl, PtCl₄) (A. 329, 117 C. 1903 [2] 1322).
 - 29) 4-Methyl-5-Aethyl-1, 3-Diazin. Sd. 193,5°₇₅₈. HCl, + 2HgCl₂, + 2PtCl₄, + AuCl₃ (B. 36, 1917 C. 1903 [2] 208).
 30) Nitril d. Pentan-αs-Dicarbonsaure. Sd. 171-172°₁₂ (B. 37, 3590 C.
 - 1904 [2] 1407).
- 13) Nitril d. Hexahydrobenzolcarbonsäure. Sd. 185-185,50728. HCl, (2HCl, $C_7H_{11}N$ PtCl₄), (HCl, AuCl₈) (C. 1904 [1] 1214).

C7H11N8 *5) 4-Hydrazido-2,6-Dimethylpyridin. HCl, H2SO4, Pikrat (B. 36, 1116 C. **1903** [1] 1185).

7) 2-Amido-4-Methyl-5-Aethyl-1,3-Diazin. Sm. 168—169°; Sd. 250°, as a constant of the constant (B. 36, 1919 C. 1903 [2] 208).

C,H,2O *1) δ -Oxy- $\alpha \zeta$ -Heptadiën (*C.* 1903 [2] 1415).

*9) 2-Keto-1-Methylhexahydrobenzol. Sm. 165° (A. 329, 376 C. 1904 [1]

21) 1-Methylhexahydrobenzol-3,4-Oxyd. Sd. 146° 205 (C. 1903 [2] 289; 1904 [1] 1346).

22) Aldehyd d. Hexahydrobenzolcarbonsäure. Sd. 1590 (Bl. [3] 29, 1050 C. 1903 [2] 1437; C. r. 137, 989 C. 1904 [1] 257; C. r. 139, 344 C. 1904

 $C_7H_{12}O_2$ *2) $\beta\delta$ -Diketoheptan (Butyrylaceton). Sd. 69-70 $^{\circ}_{20}$. Na, Cu (Bl. [3] 27, 1085 C. 1903 [1] 225).

*21) Hexahydrobenzolcarbonsäure (C. 1903 [1] 1134).
*30) Lakton d. γ-Oxyhexan-α-Carbonsäure. Sd. 222—234°₇₄₂ (B. 35, 4272 C. 1903 [1] 281).

*33) Lakton d. δ-Oxy-β-Methylpentan-β-Carbonsäure. Sm. 520 (Soc. 85. 158 C. 1904 [1] 720).

*53) $\gamma \delta$ -Diketoheptan. Sd. 145—146° (*Bl.* [3] 31, 1174 *C.* 1904 [2] 1701). 69) α -Hexen- α -Carbonsäure. Sd. 225—228° $_{787}$. Ca (*B.* 35, 4268 *C.* 1903 [1] 281).

70) δ-Methyl-β-Penten-δ-Carbonsäure. Sd. 213° (Soc. 85, 158 C. 1904 [1] 720).

71) Säure (aus Naphta). Sd. 121—122° $_{14}$ (D.R.P. 151880 C. 1904 [2] 70). 72) Lakton (aus β -Methylbutan- $\beta\delta$ -Dicarbonsäurediäthylester). Sd. 105° $_{18}$. Ba $+ 1\frac{1}{2}H_2O$ (*C. r.* 138, 580 *C.* 1904 [1] 925).

73) Acetat d. 1-Oxymethyl-R-Tetramethylen. Sd. 150-151 786 (C. 1903) [1] 828).

C₇H₁₂O₃ *13) β-Ketohexan-ζ-Carbonsäure. Sm. 50° (Λ. 329, 377 C. 1904 [1] 517). *14) δ-Keto-β-Methylpentan-β-Carbonsäure. Sm. 75,5—76,5° (Λ. 329, 99 C. 1903 [2] 1071; Soc. 85, 1219 C. 1904 [2] 1108).

*27) Methylester d. γ-Keto-β-Methylbutan-β-Carbonsäure. Sd. 174—174,2° (Soc. 83, 1231 C. 1903 [2] 1420).

*39) δ -Oxy- β -Hexen-s-Carbonsäure. Fl. K + 1½H₂O, Ba + 3½H₂O (\mathcal{O} . 1903 [2] 556).

*45) Methylester d. β -Ketopentan- α -Carbonsäure. Sd. 86 $^{\circ}_{14}$ (Bl. [3] 27, 1089 C. 1903 [1] 226).

49) γ-Methyl-γ-Oxymethyl-α-Buten-α-Carbonsaure. Ba (M. 25, 14 C. 1904) 1] 718).

50) trans-4-Oxyhexahydrobenzol-1-Carbonsäure. Sm. 121° (Soc. 85, 430 C. 1904 [1] 1082, 1439).

51) γ-Ketohexan-α-Carbonsäure (β-Butyrylpropionsäure). Sm. 46-47° (Bl. [3] **27**, 1093 *C*. **1903** [1] 226).

52) s-Keto-β-Methylpentan-s-Carbonsäure. Sm. 22°; Sd. 101—102°₁₂ (Bl. [3] 31, 1152 C. 1904 [2] 1707).

 53) α-Keto-ββ-Dimethylbutan-α-Carbonsäure (Dimethyläthylbrenztraubensäure). Sd. 86°₁₈. Ca + H₂O (A. 327, 209 C. 1903 [1] 1407).
 54) Aethylester d. α-Ketobutan-α-Carbonsäure (Ac. d. Butyrylamcisensäure). Sd. 179-180° (B. 37, 2386 Anm. C. 1904 [2] 307; Bi. [3] 31, 1149 C. 1904 [2] 1706).

55) Monoäthylester d. Propan-etaeta-Dicarbonsäuremonaldehyd. Sd. 163 bis 164°₇₄₆ (Bl. [3] 31, 161 C. 1904 [1] 869). 56) Butyrat d. u-Oxy-β-Ketopropan. Sd. 106—107°₂₇ (C. r. 138, 1275 C.

1904 [2] 93).

*8) Pentan- α 5-Dicarbonsäure. Sm. 57,5—61,5° (C. 1903 [2] 23, 289). *9) Pentan- α 5-Dicarbonsäure. Sm. 103—104° (E. 37, 3591 C. 1904 [2] 1407). *13) trans-Pentan- β 5-Dicarbonsäure. Sm. 140—141° (Soc. 83, 359 C. 1903 [1] 1122).

*14) cis-Pentan-βδ-Dicarbonsäure. Sm. 126-127° (128°) (C. r. 136, 382 C. 1903 [1] 697; Soc. 83, 358 C. 1903 [1] 1122; Bl. [3] 29, 1018 C. 1903 [2] 1315).

*19) trans-β-Methylbutan-αγ-Dicarbonsäure. Fl. (Soc. 83, 357 C. 1903 [1] 389, 1122).

- $\mathbf{C}_{7}\mathbf{H}_{12}\mathbf{O}_{4}$ *20) cis- β -Methylbutan- $\alpha\gamma$ -Dicarbonsäure. Sm. 84—85° (82—83°; 87°) (Bl. [3] 29, 333 C. 1903 [1] 1216; C. r. 136, 243 C. 1903 [1] 565; Soc. 83, 357 *C.* **1903** [1] 389, 1122).

 - *21) β-Methylbutan-αδ-Dicarbonsäure. Sm. 89,2° (C. 1903 [2] 288, 289, 1425).
 *23) β-Methylbutan-βδ-Dicarbonsäure. Sm. 90° (82°) (Soc. 83, 13 C. 1903 [1] 76, 443; C. r. 136, 1463 C. 1903 [2] 282; A. 329, 97 C. 1903 [2] 1071; C. r. 138, 580 C. 1904 [1] 925).
 - *34) Dimethylester d. Propan- $\alpha\beta$ -Dicarbonsäure. Sd. 197—198° (Soc. 85, 543 C. 1904 [1] 1485).
 - *42) Diäthylester d. Malonsäure. + AlCl₃ (B. 36, 268 C. 1903 [1] 440; B. 36, 1333 C. 1903 [1] 1301; Soc. 85, 1108 C. 1904 [2] 976).
 - 57) α -Acetoxyl- β -Methylpropan- β -Carbonsäure. Sm. 56°. Ća (Bl. [3] 31, 125 C. 1904 [1] 644).
 - 58) Monomethylester d. cis-Butan-β₁-Dicarbonsäure. Sm. 38°. Ag (Soc.
 - 85, 545 C. 1904 [1] 1484).
 59) Monomethylester d. trans-Butan-βγ-Dicarbonsäure.
 (Soc. 85, 546 C. 1904 [1] 1484). Sm. 49°. Ag
 - 60) α -Methylester d. β -Methylpropan- $\alpha\beta$ -Dicarbonsaure. Sm. 52°. Ag (Soc. 85, 547 C. 1904 [1] 1485).
 - 61) β -Methylester d. β -Methylpropan- $\alpha\beta$ -Dicarbonsäure. Sm. 40,5—41°; Sd. 141°₁₄. Ag (Soc. 85, 548 C. 1904 [1] 1485).
- $C_7H_{12}O_5$ 40) γ -Oxy- β -Methylbutan- $\beta\delta$ -Dicarbonsäure. Sm. 158—160° (Soc. 83, 14) C. 1903 [1] 76, 443).
 - 41) Oxysäure (aus Pilopinsäure). Ba, Ag₂ (Soc. 79, 1337 C. 1902 [1] 50). *III, 688.
- *2) d-Chinasäure (Ph. Ch. 44, 467 C. 1903 [2] 570). $C_7H_{12}O_6$
 - *3) $\gamma \delta$ -Dioxypentan- $\alpha \beta$ -Dicarbonsäure. Ba + 3 $\frac{1}{2}$ H₂O (A. 330, 318 C. **1904** [1] 928).
 - *11) Diäthylester d. Dioxymethandicarbonsäure. Sm. 57° (C. r. 137, 197 (11) Diäthylester d. Dioxymethandicarponsaure. C. 1903 [2] 659; B. 37, 1782 C. 1904 [1] 1483).
 16) Methylengalaktosid. Sm. 203° (R. 22, 163 C. 1903 [2] 108).
 17) Methylenmannosid. Sm. 188° (R. 22, 164 C. 1903 [2] 109).
 18) Monopropylester d. d-Weinsäure. K (Soc. 85, 1124 C. 1904 [2] 1206).
 6) isom. Pentaoxypimelinsäure. Ca (B. 35, 4020 C. 1903 [1] 391).
 10) 2 Mothyl-5-Propylpyrazol (oder 5 Methyl-3-Propylpyrazol). Sd. 136 bis
- $C_7H_{12}O_9$ C₇H₁₂N₂ 10) 3-Methyl-5-Propylpyrazol (oder 5-Methyl-3-Propylpyrazol). Sd. 136 bis 137°₂₀ (Bl. [3] 27, 1087 C. 1903 [1] 226; Bl. [3] 27, 1099 C. 1903 [1] 227). Nitril d. Hexahydropyridin-1-Methylcarbonsäure (N. d. Piperidylessis.
 - säure). Sm. 19°; Sd. 210° (B. 36, 4193 C. 1904 [1] 263; C. 1904 [2] 1378; B. 37, 4082 C. 1904 [2] 1723).
- C₇H₁₂N₄ 3) 2,6-Diamido-4-Methyl-5-Aethyl-1,3-Diazin. Sm. 161—162°; Sd. 310° (2HCl, PtCl₄) (B. **36**, 1920 C. **1903** [2] 208).
- $C_7H_{12}Br_2$ 6) 3,4-Dibrom-1-Methylhexahydrobenzol. Sd. 130°₄₀ (C. 1904 [1] 1213; **1904** [2] 220)
- $C_7H_{13}C1$ *7) 3-Chlor-1-Methylhexahydrobenzol. Sd. 63,5-65 $^{0}_{40}$ (C. 1904 [1] 1345).
- *9) 1-Chlor-1-Methylhexahydrobenzol (C. 1904 [1] 1345).
 12) 2-Chlor-1-Methylhexahydrobenzol. Sd. 65-67 40 (C. 1904 [1] 1345).
 C₇H₁₈Br *1) 3-Brom-1-Methylhexahydrobenzol. Sd. 181 768 (C. 1904 [1] 1345; B. 37, 851 C. 1904 [1] 1146).
 - *7) Brom-R-Heptamethylen. Sd. 101,5% (C. 1903 [1] 567; A. 327, 63 C. 1903 [1] 1124).
- *2) 3-Jod-1-Methylhexahydrobenzol. Sd. $205-206_{784}^{0}$ (1904 [1] 1346). $C_7H_{18}J$ *1) δ -Oxy- δ -Methyl- α -Hexen (C. 1903 [2] 1415).
- C, H, 0
 - *3) Oxy-R-Heptamethylen. Sd. 184—185°₇₅₈ (C. 1904 [1] 1214).

 *4) 2-Oxy-Methylhexahydrobenzol. Sd. 168—170° (A. 329, 375 C. 1904 [1] 517; C. 1904 [1] 1346).

 *8) 2-Oxy-I,3-Dimethyl-R-Pentamethylen (C. 1903 [2] 1415).

 - *12) β -Ketoheptan. Sd. 149—150° (Bl. [3] 29, 674 C. 1903 [2] 487). *15) δ -Keto- β -Methylhexan (C. r. 137, 576 C. 1903 [2] 1110). *17) β -Keto- γ -Methylhexan. Sd. 146—147° (C. 1903 [1] 1023; B. 36, 2715 C. 1903 [2] 987).
 - *26) Oenanthol. + Anilinsulfit, + Anilinanhydrosulfit (A. 325, 356 C. 1903
 - *29) 1-Oxy-1-Methylhexahydrobenzol. Sm. 12°; Sd. 155°, reo (C. r. 138, 1321 C. 1904 [2] 219).

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35) \delta-Oxy-\beta\delta-Dimethyl-\beta-Penten. Sd. 46°<sub>14</sub> (B. 37, 3578 C. 1904 [2] 1376).
    C_7H_{14}O

    36) Oxymethylhexahydrobenzol. (Hexahydrobenzylalkohol). Sd. 82 ° (181° 756) (C. r. 137, 61 C. 1903 [2] 551; C. r. 139, 344 C. 1904 [2] 704).
    37) Aldehyd d. Hexan-γ-Carbonsäure. Sd. 141-143° (C. r. 138, 92 C. 1904).

                                                                                                                                                                             Sd. 82 %
                        52) 3,4-Dioxy-1-Methylhexahydrobenzol. Sd. 134°<sub>18</sub> (C. 1904 [2] 220).
53) Monomethyläther d. isom. 1,2-Dioxyhexahydrobenzol. Sd. 184—185°<sub>782</sub>
    C, H, O,
                                 (C. \ r. \ 136, 384 \ C. \ 1903 \ [1] \ 711).
                         54) Aethyläther d. α-Oxy-β-Ketopentan. Sd. 164—165° (C. r. 138, 91 C. 1904
                         55) Öxyd (aus d. Glycerin d. Methyläthylallylcarbinol). Sd. 201—203 % (C. 1904)

55) Oxya (aus a. Grycelli a. Leonyana)
[2] 185).
56) ββ-Dimethylbutan-δ-Carbonsäure. Sm. -1 bis +3°; Sd. 211—214°
(C. r. 136, 554 C. 1903 [1] 825; Bl. [3] 29, 664 C. 1903 [2] 487).
57) Säure (aus Naphta). Sd. 207—209° (C. 1903 [1] 1134).
58) Aldehyd d. δ-Oxy-β-Methylpentan-γ-Carbonsäure. Sd. 100—110° (M. 22, 4; M. 24, 245 C. 1903 [2] 237).
50) Mothylaster d. Pentan-γ-Carbonsäure (M. d. Diäthylessigsäure) (C. 1903

                        [1] 225). [60) Verbindung (aus d. Verb. C_6H_{10}O_2). Sd. 160—170° (C. r. 137, 1205 C.
   C<sub>7</sub>H<sub>14</sub>O<sub>3</sub> *6) γ-Oxyĥexan-α-Carbonsäure. Ba (B. 35, 4212 U. 1605 [1] 2017. *48) Aldehyd d. \alpha\gamma-Dioxy-\beta\beta-Dimethylbutan-δ-Carbonsäure (M. 25, 1065
                        *6) γ-Oxyhexan-α-Carbonsäure. Ba (B. 35, 4272 C. 1903 [1] 281).
                     *49) Aethylester d. \alpha-Oxy-\beta-Methylpropan-\beta-Carbonsäure. Sd. 188°, (Bl. [3] 31, 113 C. 1904 [1] 643; Bl. [3] 31, 122 C. 1904 [1] 644).
                        52) \delta-Oxy-\beta-Methylpentan-\gamma-Carbonsäure. Sd. 250° (M. 24, 246 C. 1903
                        53) \alpha-Oxy-\beta-Methylpropanäthyläther-\beta-Carbonsäure. Sd. 123^{\circ}_{22} (Bl. [3] 31, 127 C. 1904 [1] 644).
                        54) Aethylester d. \beta-Oxy-\alpha-Methylbuttersäure. Sd. 98—100 _{30}^{\circ} (Bl. [3] 29, 330 C. 1903 [1] 1226).
                       55) Butylester d. 1-\alpha-Oxypropionsäure. Sd. 70,5—73^{\circ}_{10}—11 (C. 1903 [2] 1419). 56) Isobutylester d. 1-\alpha-Oxypropionsäure. Sd. 72—75^{\circ}_{18} (C. 1903 [2] 1419). 57) Monoacetat d. \alpha\beta-Dioxy-\beta-Methylbutan. Sd. 145—147^{\circ}_{10} (C. r. 137, 758
  57) Monoacebab d. α. γ. C. 1903 [2] 1415).

C<sub>7</sub>H<sub>14</sub>O<sub>4</sub> *9) α-Butyrat d. αβγ-Trioxypropan (C. 1903 [1] 133).

13) α-Isobutyrat d. αβγ-Trioxypropan. Sd. 264—266° (C. 1903 [1] 134).

*6) α-Methyl-d-Glykosid. Sm. 164—165° (M. 24, 358 C. 1903 [2] 488;
                       *7) β-Methyl-d-Glykosid (Soc. 83, 1312 C. 1904 [1] 86).
22) Methylchitosid + H<sub>2</sub>O. Sm. 169° (B. 35, 4021 C. 1903 [1] 391).
9) Chitoheptonsäure. Ba (B. 35, 4022 C. 1903 [1] 391).
  C,H,O,
  \mathbf{C}_{7}\mathbf{H}_{14}^{\bullet}\mathbf{N}_{2}^{\circ} *1) Nitril d. Dipropylamidoameisensäure. Sd. 97_{17}^{\circ} (B. 36, 1198 C. 1903
                               [1] 1215).
                      *7) α-Diäthylamidopropionsäure. Sd. 68°<sub>17</sub> (B. 37, 4089 C. 1904 [2] 1724).
8) polym. αs-Di[Methylenamido] pentan. Sm. 251° (B. 36, 38 C. 1903

    9) Nitril d. α-Propylamidobuttersäure. Sd. 176—177° (C. 1904 [2] 945).
    10) Nitril d. α-Isobutylamidopropionsäure. Sd. 168—169° (C. 1904 [2] 945).

 C<sub>7</sub>H<sub>16</sub>N *7) 3-Amido-l-Methylhexahydrobenzol. Sd. 150° (C. r. 138, 1258 C. 1904
                               [2] 105).
                   *13) 1-Aethylhexahydropyridin. d-Bromcamphersulfonat (Soc. 83, 1144 C. 1903 [2] 1063).
C. 1903 [2] 1063). 31) 1-Amidomethylhexahydrobenzol. Sd. 163^{\circ}_{740} (C. 1904 [1] 1214). 32) Methylamidohexahydrobenzol. Sd. 145^{\circ} (C. r. 138, 1258 C. 1904 [2] 105). 33) 2, 5-Dimethylhexahydropyridin. Sd. 138-140^{\circ}. HCl, (2HCl, PtCl<sub>4</sub>), (HCl, AuCl<sub>9</sub>), HBr, HJ (C. 1903 [1] 1034; B. 37, 2063 C. 1904 [2] 123). (C<sub>7</sub>H<sub>16</sub>Br *1) \alpha-Bromheptan. Sd. 175,5-177,5^{\circ}_{785} (C. 1903 [1] 961). *2) \beta-Bromheptan (C. 1903 [2] 100). *2) \beta-Bromheptan. Sd. 175^{\circ} (M. 25, 1087 C. 1904 [2] 1698). *7) \zeta-Oxy-\beta-Methylbutan. Sd. 167-169^{\circ}_{755} (C. r. 136, 1261 C. 1903 [2] 106). *9) \gamma-Oxy-\gamma-Aethylpentan. Sd. 142^{\circ}_{764} (B. 36, 1009 C. 1903 [1] 1077; C. 1903 [2] 1415).
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- $\mathbf{C}_{7}\mathbf{H}_{16}\mathbf{O}$ 18) Isopropyläther d. β -Oxy- β -Methylpropan. Sd. 75-76 $^{\circ}_{768}$ (C. 1904) [1] 1065).
- C₇H₁₆O₂ 11) αζ-Dioxy-γ-Methylhexan. Sd. 155°₁₂ (C. r. 137, 329 C. 1903 [2] 711). 12) αε-Dioxy-ββ-Dimethylpentan. Sd. 134°₁₀ (C. r. 137, 329 C. 1903 [2] 711). C₇H₁₆O₃ *5) αα-Diäthyläther d. ααγ-Trioxypropan (B. 36, 3658 C. 1903 [2] 1311). 7) αγε-Trioxy-ββ-Dimethylpentan. Fl. (M. 25, 1068 C. 1904 [2] 1599). 8) δ-Oxy-γγ-Di[Oxymethyl]-γ-Methylbutan. Sm. 83—83,5° (B. 36, 1342 C. 1903 [1] 1298). C. H. N. (a) L-Amide. 2.4 Dimethylbacabydropyridin. Sd. 170, 175° (B. 37, 2008).
- $C_7H_{16}N_2$ 9) 1-Amido-2, 4-Dimethylhexahydropyridin. Sd. 170-175° (B. 37, 2065)
 - C. 1904 [2] 123).
 10) 1- Amido-2, 6-Dimethylhexahydropyridin. Sd. 170—175° (C. 1903 [1] 1034).
- 15) act. β -Aethylamidopentan (Aethyl-act. sec. Amylamin). (2HCl, PtCl₄) (C. 1904 [1] 923).
- 16) α-Isopropylamido-β-Methylpropan (Isopropylisobutylamin). (2HCl, PtCl₄) (C. 1904 [1] 923).
- C₇H₁₈Sn 2) Zinndimethyläthylpropyl. Sd. 153°₇₆₂ (C. 1904 [1] 353).

- 7 III -

- 5) 2,3,5,6-Tetrachlor-4-Keto-1-Methylen-1,4-Dihydrobenzol. Sm. noch nicht bei 270° (A. 328, 295 C. 1903 [2] 1248).
 1) 1,2-Carbonat d. 4,6-Dibrom-1,2,3-Trioxybenzol. Sm. 146° (B. 37, C,H,OCl
- C,HOBr, 112 C. 1904 [1] 585).
- C,H,NCl *1) Nitril d. 2,4,6-Trichlorbenzol-1-Carbonsäure. Sm. 77,50 (R. 21, 384 *C.* **190**3 [1] 152).
- C, H, OCL *3) Chlorid d. 2, 6-Dichlorbenzol-1-Carbonsäure. Sd. 142-143 . (Soc.
 - 83, 1214 C. 1903 [2] 1330).
 *4) Chlorid d. 3,4-Dichlorbenzol-1-Carbonsäure. Sd. 159—160⁹42 (Soc. 83, 1214 C. 1903 [2] 1330).
 - 5) Chlorid d. 2,3-Dichlorbenzol-1-Carbonsäure. Sd. 140% (Soc. 83, 1214 C. 1903 [2] 1330).
 - 6) Chlorid d. 2,4-Dichlorbenzol-l-Carbonsäure. Sd. 150% (Soc. 83,
 - 1214 C. 1903 [2] 1330).
 7) Chlorid d. 2,5-Dichlorbenzol-1-Carbonsäure. Sd. 1370, (Soc. 83, 1214 C. 1903 [2] 1330).
 - 8) Chlorid d. 3,5-Dichlorbenzol-1-Carbonsäure. Sd. 135-137% (Soc.
- 83, 1214 C. 1903 [2] 1330).
 3) 2,2,3,5,6-Pentachlor-1-Keto-4-Methyl-1,2-Dihydrobenzol. Sm. C7H3OCl5 99-100° (A. 328, 285 C. 1903 [2] 1246).
- *6) 2,4,6-Trichlorbenzol-1-Carbonsaure. Sm. 164° (R. 21, 385 C. 1903 C₇H₈O₂Cl₃ [1] 152).
- 4) 2,2,4,4,5-Pentachlor-1,3-Diketo-6-Methyl-1,2,3,4-Tetrahydrobenzol. Sm. 85° (A. 328, 308 C. 1903 [2] 1248).
 3) 3,3,6-Trichlor-1,2,4-Triketo-5-Methyl-1,2,3,4-Tetrahydrobenzol + 2H₂O? Sm. 77-78° (A. 328, 319 C. 1903 [2] 1247). C7H3O2CI5
- C₇H_aO₈Cl₈ *2) 2,4,6-Tribrom-3-Oxybenzol-1-Carbonsäure $+\frac{1}{2}$ H₂O. Sm. 145-146° $C_7H_8O_8Br_8$
- (G. 32 [2] 338 C. 1903 [1] 580). 1) 1,2-Carbonat d. 4-[oder 6]-Brom-1,2,3-Trioxybenzol. Sm. 155° (B. 37, 111 C. 1904 [1] 584). C7H8O4Br
- 2) Carbonat d. 4-Nitro-1, 2, 3-Trioxybenzol. Sm. 148-149° (B. 37, 113 $C_7H_3O_6N$ C. 1904 [1] 585).
- 2) 2-Nitroso-4, 6-Dinitrobenzol-1-Carbonsäure. Sm. 229° u. Zers. + C₆H₆ (B. 36, 962 C. 1903 [1] 969). $C_7H_3O_7N_3$
- *1) 2,4,6-Trinitrobenzol-1-Carbonsaure. Sm. 210° u. Zers. (R. 21, 380 C,H,O,N, C. 1903 [1] 151; Soc. 85, 237 C. 1904 [1] 1006).
- $C_7H_8NBr_2$ *1) Nitril d. 3,5-Dibrombenzol-1-Carbonsäure. Sm. 96,5-97° (C. 1903) [2] 1194).
- 1) Nitril d. P-Tribrom-3-Amidobenzol-1-Carbonsäure. Sm. 177—178° $C_7H_8N_2Br_8$
- (C. 1904 [2] 104).
 *3) Methyläther d. 2,3,4,6-Tetrachlor-1-Oxybenzol. Sm. 64-65° (B. $\mathbf{C}_{7}\mathbf{H}_{4}\mathbf{OCl}_{4}$ 37, 4015 C. 1904 [2] 1716).
 - 4) 2, 3, 5, 6-Trichlor-4-Oxy-1-Methylbenzol. Sm. 190° (A. 328, 281 C. 1903 [2] 1245).

5) 2,2,5,6-Tetrachlor-1-Keto-4-Methyl-1,2-Dihydrobenzol? Sm. 106 C,H,OCl, bis 107° (A. 328, 283 C. 1903 [2] 1246). *2) 2,4,5,6-Tetrabrom-3-Oxy-1-Methylbenzol. Sm. 191-1920 (A. 333. $C_7H_4OBr_4$ 356 C. 1904 [2] 1116). *7) 2, 3, 5-Tribrom-4-Oxy-1-Brommethylbenzol. Sm. 122° (A. 334, 330 C. 1904 [2] 988). 1) Thiocarbonylthiobrenzkatechin. Sm. 99,5° (C. 1904 |2] 1176) C,H4OS2 *2) Nitril d. 2-Nitrobenzol-1-Carbonsäure. Sm. 109,5° (C. 1903 [1] C,H4O,N2 174). *3) Nitril d. 3-Nitrobenzol-1-Carbonsäure. Sm. 117-117,50 (C. 1904 [2] 100). *5) Imid d. Pyridin-2,3-Dicarbonsäure. K (B. 37, 2131 C. 1904 |2] 232).*4) 2,4-Dichlorbenzol-1-Carbonsäure. Sm. 156-158° (B. 37, 221 C. 1904 C₇H₄O₂Cl₂ [1] 588). *10) Aldehyd d. 3,5-Dichlor-4-Oxybenzol-1-Carbonsäure. Sm. 158—159° (B. 37, 4033 C. 1904 [2] 1719). 12) Aldehyd d. 3,5-Dichlor-2-Oxybenzol-1-Carbonsaure. (B. 37, 4027 C. 1904 [2] 1718). 5) 2,3,5,6-Tetrachlor-4-Keto-1-Oxy-1-Methyl-1,4-Dihydrobenzol. C,H4O2Cl4 Sm. 166° B. 28, 3122; A. 328, 300 C. 1903 [2] 1248). — *III, 251. *8) 3,5-Dibrombenzol-1-Carbonsäure. Sm. 219,5—220,5° (C. 1903 [2] C,H,OBr 1194). 5) Aldehyd d. ?-Tetrabrom-3-Oxy-?-Dihydrobenzol-1-Carbonsäure. $C_7H_4O_9Br_4$ Sm. 118° (D.R.P. 68583). - *III, 48. *2) 3,5-Dichlor-2-Oxybenzol-1-Carbonsäure. Sm. 2190 (B. 37, 4030 C,H4O,Cl2 C. 1904 [2] 1718). 6) 3,6-[oder 5,6]-5[oder 3]-Oxy-2-Methyl-1,4-Benzochinon. Sm. 157 bis 158° (A. 328, 321 C. 1903 [2] 1247). 1) Ketochlorid + H₂O (aus 3,5,6-Trichlor-1,2-Dioxy-4-Keto-1-Methyl-1,4-Dihydrobenzol). Sm. 97° (103° wasserfrei) (A. 328, 307 C. 1903 C7H4O8Cl4 [2] 1248). 4) Säure (aus 2,2,4,4,5-Pentachlor-1,3-Diketo-6-Methyl-1,2,3,4-Tetrahydro-C7H4O8Cl8 benzol). Sm. 133° (A. 328, 310 C. 1903 [2] 1248). *2) 3,5-Dibrom-2-Oxybenzol-1-Carbonsaure. Sm. 221° (Soc. 81, 1480 C,H,O,Br C. 1903 [1] 144). *3) 3,5-Dibrom-4-Oxybenzol-1-Carbonsäure. Sm. 266° u. Zers. (G. 33 [1] 70 *C.* **190**3 [1] 876). 8) 4,6-Dibrom-3-Oxybenzol-1-Carbonsäure. Sm. 194-195° (G. 32 [2] 337 C. 1903 [1] 579). 9) 4,6[?]-Dibrom-3-Oxybenzol-1-Carbonsäure + II₂O. (Soc. 81, 1483 C. 1903 [1] 23, 144). 2) Anhydrid d. Oxymerkurosalicylsäure (G. 32 [2] 306 C. 1903 [1] 578)... C,H,O,Hg C 32,8 — H 1,5 — O 50,8 — N 21,9 — M. (4. 256. 1) 2,4,6-Trinitrobenzaldoxim. Sm. 158° (B. 36, 961 C. 1903 [1] 969). C,H,O,N, 2) Amid d. 2,4,6-Trinitrobenzol-1-Carbonsäure. Sm. 264° u. Zers. (R. 21, 382 C. 1903 [1] 152). 0.29,2.4 + 1.4 + 0.50,0.4 + N.19,4 + M.G. 288.C,H,O,N, 1) Methyläther d. 2, 3, 5, 6-Tetranitro-1-Oxybenzol. Sm. 1120 (und 1540). $+ C_6H_6$ (R. 23, 115 C. 1904 [2] 205). 3) Nitril d. 3,5-Dibrom-2-Amidobenzol-I-Carbonsäure. Sm. 156 bis C,H,N,Br, 156,5° (C. 1903 [2] 1194). *1) Benzoxazol. Sm. 30-31°; Sd. 182-183°. + HgCl₂ (B. 36, 2054) C,HON C. 1903 [2] 383). *2) Anthranil. (2 HCl, SnCl,) (B. 36, 819 C. 1903 [1] 1026; B. 36, 831 C. 1903 [1] 1027; B. 36, 839 C. 1903 [1] 1028; B. 36, 2465 C. 1903 [2] 559; B. 36, 3637 C. 1903 [2] 1331; B. 36, 3645 C. 1903 [2] 1332; B. 36, 4295 C. 1904 [1] 507; B. 36, 4178 C. 1904 [1] 278; B. 37, 966 C. 1904 [1] 1078). *3) Nitril d. 2-Oxybenzol-1-Carbonsäure. Sm. 98°. NH4, Anilinsalz (B. 36, 581 C. 1903 [1] 709).
*8) Phenylisocyanat. Sm. 162° (B. 36, 2477 C. 1903 [2] 559; M. 24,

851 C. 1904 [1] 364).

C, H, ON, *3) 4-Keto-3,4-Dihydro-1,2,3-Benztriazin (J. pr. [2] 69, 102 C. 1904 C,H,OCl *4) Chlorid d. Benzolcarbonsäure. + FeCl₃ (Am. 29, 141 C. 1903 [1] 715; R. 22, 316 C. 1903 [2] 203). C7H5OCL 4) 2,3,5-Trichlor-4-Oxy-1-Methylbenzol. Sm. 66-67° (A. 328, 279) C. 1903 [2] 1245). 1) 1,2,3,3,5,5,6-Heptachlor-4-Keto-1-Methyl-1,4-Dihydrobenzol. Sm. C,H,OCl, 110° (A. 328, 286 C. 1903 [2] 1245). *3) Aldehyd d. 4-Brombenzol-1-Carbonsäure. Sm. 57° (B. 37, 188 C. C,H,OBr **1904** [1] 638). *4) 3,5-Dibrom-4-Oxy-1-Brommethylbenzol. Sm. 149-150° (B. 36, 1883) C. 1903 [2] 290). $C_7H_5O_2N$ *3) Aldehyd d. 3-Nitrosobenzol-1-Carbonsäure (B. 36, 2310 C. 1903 [2] 429; Am. 30, 111 C. 1903 [2] 719). *4) Aldehyd d. 4-Nitrosobenzol-1-Carbonsäure. Sm. 137,50 (B. 36, 2308) C. 1903 [2] 429; Am. 30, 111 C. 1903 [2] 719). 7) Verbindung (aus 2-Nitro-1-0xymethylbenzol). = $(C_7H_5O_2N)_x$. Zers. bei 237 $^{\circ}$ (B. 37, 3429 C. 1904 [2] 1213). *1) 6-Nitroindazol. Sm. 181°. HČl, (2HĆl, PtCl₄) (B. 37, 2577 C. 1904 $C_7H_5O_2N_8$ [2] 658). *2) 6-Nitrobenzimidazol (B. 36, 3968 C. 1904 [1] 177).
18) 4-Nitroindazol. Sm. 203°. (2 HCl, PtCl₄) (B. 37, 2582 C. 1904 [2] 659). 19) 5-Nitroindazol. Sm. 208° (B. 37, 2584 C. 1904 [2] 659). 20) 7-Nitroindazol. Sm. 186,5—187,5° (B. 37, 2575 C. 1904 [2] 658). 21) 1,2,9-Benzisotriazol-5-Carbonsäure (B. 36, 1114 C. 1903 [1] 1184).
 22) Nitril d. 3-Nitrophenylamidoameisensäure. Sm. 133—134° (C. 1903 [2] 111). *3) 2-Chlorbenzol-1-Carbonsäure. Sm. 142° (C. 1903 [2] 550; D.R.P. C7H5O2Cl 146174 C. 1903 [2] 1224). *6) Aldehyd d. 5-Chlor-2-Oxybenzol-1-Carbonsäure. Sm. 99,50 (B. 37, 4024 C. 1904 [2] 1717).

9) Aldehyd d. 3-Chlor-4-Oxybenzol-1-Carbonsäure. Sm. 156° (139°) (B. 10, 2196; G. 28 [1] 235; D.R.P. 105798 C. 1900 [1] 523; B. 37, 4032 C. 1904 [2] 1718). — III, 82; *III, 60. 7) 3,5,6-Trichlor-2,4-Dioxy-1-Methylbenzol. Sm. 134° (A. 328, 307 C7H5O2Cl8 C. 1903 [2] 1248). 8) 2,3,5-Trichlor-1-Oxy-4-Keto-1-Methyl-1,4-Dihydrobenzol. Sm. 89 bis 90° (A. 328, 299 C. 1903 [2] 1248). *3) 2-Brombenzol-1-Carbonsäure. (NH₄)H, KH (Soc. 83, 1443 C. 1904 C7H5O2Br [1] 510; Soc. 85, 243 C. 1904 [1] 1006).

*4) 3-Brombenzol-1-Carbonsäure. + H₂SO₄, (NH₄)H, K (R. 21, 350 C. 1903 [1] 150; Soc. 83, 1443 C. 1904 [1] 510; Soc. 85, 243 C. 1904 *5) 4-Brombenzol-1-Carbonsäure. (NH₄)H, KH (Soc. 83, 1443 C. 1904 [1] 510). *6) Aldehyd d. 5-Brom-2-Oxybenzol-1-Carbonsäure. Sm. 104-105° (B. 37, 3934 C. 1904 [2] 1596). 8) Aldehyd d. P-Brom-3-Oxybenzol-1-Carbonsäure. Sm. 40-45° (D.R.P. 28078). — *III, 58. *5) Monomethyläther d. 4,5,6-Tribrom-1,2-Dioxybenzol (C. r. 135, $C_7H_5O_2Br_8$ 968 C. 1903 [1] 145). $C_7H_5O_2J$ *2) 2-Jodbenzol-1-Carbonsäure. Sm. 162° (H. 37, 436 C. 1903 [1] 1150; Soc. 85, 1272 C. 1904 [2] 1303). *3) 3-Jodbenzol-1-Carbonsäure. Sm. 187-188° (Soc. 85, 1273 C. 1904 [2] 1303). *4) 4-Jodbenzol-1-Carbonsäure. Sm. 265 (Soc. 85, 1274 C. 1904 [2] 1303). 10) Aldehyd d. P-Jod-2-Oxybenzol-1-Carbonsäure. Sm. $52-54^{\circ}$ (J. pr. [2] **59**, 116). — * I, 51. *2) 2-Nitrosobenzol-1-Carbonsäure. Sm. 213° u. Zers. (R. 22, 298 C. $C_7H_5O_8N$

1903 [2] 231; B. 36, 3651 C. 1903 [2] 1332; B. 37, 3430 C. 1904 [2]

*3) Aldehyd d. 2-Nitrobenzol-1-Carbonsäure (B. 36, 819 C. 1903 [1]

1025; Bl. [3] 31, 134 C. 1904 [1] 721).

1214).

 $\mathbf{C_7H_5N_2Cl}$

$\mathbf{C_7H_5O_3N}$	*4) Aldehyd d. 3-Nitrobenzol-1-Carbonsäure (B. 36, 819 C. 1903 [1] 1025).
	*5) Aldehyd d. 4-Nitrobenzol-1-Carbonsäure (B. 36, 819 C. 1903 [1]
	1025). 6) 3-Nitrosobenzol-1-Carbonsäure. Zers. bei 230° (B. 37, 334 C. 1904)
	[1] 658). 7) 4-Nitrosobenzol-1-Carbonsäure. Zers. bei 250° (B. 37, 334 C. 1904
ť	[1] 658). 8) Gem. Anhydrid d. Salpetrigensäure u. Benzolcarbonsäure. Fl.
$C_7H_5O_3C1$	(G. 34 [1] 444 C. 1904 [2] 511). *4) 5-Chlor-2-Oxybenzol-1-Carbonsäure. Sm. 168° (B. 37, 4027 C. 1904
	[2] 1718). *6) 3-Chlor-4-Oxybenzol-1-Carbonsäure. Sm. 169° (B. 37, 4035 C. 1904
$\mathbf{C}_{7}\mathbf{H}_{5}\mathbf{O}_{8}\mathbf{Cl}_{3}$	[2] 1719). 4) 3,5,6-Trichlor-1,2-Dioxy-4-Keto-1-Methyl-1,4-Dihydrohenzol \bot
C ₇ H ₅ O ₈ Cl ₅	11 ₂ O. Sm. 125" (A. 328, 304 C. 1903 [2] 1248). 4) Säure (aus 2,2,4,4,5-Pentachlor-1,3-Director of Market 1, 2, 3, 4-Tatrahydra.
$C_7H_5O_8Br$	benzell. Sm. 115" (A. 328, 309 C. 1003 11 11 12 13 15 13 15 15 15 15 15 15 15 15 15 15 15 15 15
- γ	204, 1032). *4) 3-Brom-4-Oxybenzol-1-Carbonsäure - H ₂ O. Sm. 156° (G. 33 [1]
	69 C. 1903 [1] 876). 7) 6-Brom-3-Oxybenzol-1-Carbonsäure. Sm. 221° (C. 32 [2] 335 C.
$C_7H_5O_4N$	1903 [1] 579). *3) 2-Nitrobenzol-1-Carbonsäure. KH (B. 36, 1799 C. 1903 [2] 283;
O7II5O4II	Soc. 83, 1444 C. 1904 [1] 510; Soc. 85, 241 C. 1904 [1] 1006)
	*4) 3-Nitrobenzol-l-Carbonsäure. (NH ₄)H, KH (Soc. 83, 1444 C. 1904 [1] 510; Soc. 85, 242 C. 1904 [1] 1006).
	*5) 4-Nitrobenzol-1-Carbonsäure. (NH ₄)H, KH (Soc. 83, 1444 C. 1904 [1] 510; Soc. 85, 242 C. 1904 [1] 1006).
	*9) Pyridin-2,6-Dicarbonsäure. NaH + 3H ₂ O (M. 24, 205 (J. 1903) [2] 48).
	*10) Pyridin-3,4-Dicarbonsäure (M. 24, 203 C. 1903 [2] 48). 19) 3-Nitro-2-Methyl-1,4-Benzochinon. Sm. 6465° (Soc. 85, 528 C. 1904 [1] 1256, 1490).
$\mathbf{C_7H_5O_4N_3}$	*2) Nitril d. 6-Nitro-2-Hydroxylamido-3-Oxybenzol-1-Carbonsäure (Metapurpursäure). Zers. bei 92°. NH. K - 2H.O. BaOH - H.O.
$\mathbf{C_7H_5O_4Cl}$	(B. 33, 2718; B. 37, 1847 C. 1904 [1] 1492). — *II, 380. 1) Methylester d. 3-Chlor-I, 2-Pyron-5-Carbonsäure. Sm. 138,5 ° (B. 37, 3831 C. 1904 [2] 1614).
$\mathbf{C_7H_5O_4Br}$	5) Acetylbromisobrenzschleimsäure. Sm. 76° (C. r. 138, 50 C. 1903 [1] 443).
$\mathbf{C_7H_5O_5N}$	*4) 5-Nitro-2-Oxybenzol-1-Carbonsäure. Sm. 229-230° (C. 1903 [2] 550).
	17) 6-Nitro-2-Oxybenzol-1-Carbonsäure? Sm. 130° (B. 35, 3865 C. 1903 [1] 154).
	18) Aldehyd d. 2-Nitro-3,4-Dioxybenzol-1-Carbonsäure. Sm. 176°. K ₂ (B. 36, 2931 C. 1903 [2] 888; B. 36, 3528 C. 1903 [2] 1378).
	19) Aldehyd d. 5-Nitro-3, 4-Dioxybenzol-1-Carbonsäure. Sm. 106°. K ₂ (B. 36, 2933 C. 1903 [2] 888).
$\mathbf{C_7H_5O_5N_3}$	*2) Amid d. 3,5-Dinitrobenzol-1-Carbonsäure. Sm. 183 (J. pr. [2] 69, 461 C. 1904 [2] 595).
$C_7H_5O_6N$	4) P-Nitro-2,4-Dioxybenzol-1-Carbonsäure $- \cdot _2H_9O$. Sm. 215° (wasserfrei). Na ₂ , Na ₃ , K ₂ , K ₃ , Ba + 3H ₂ O, Ba ₂ + 10H ₂ O, Ag, Ag, (M. 25)
$C_7H_5O_7N$	25 G. 1904 [1] 723). *1) Oximidokomensäure? (G. 38 [2] 233 G. 1904 [1] 45).
$\mathbf{C}_{7}\mathbf{H}_{5}\mathbf{O}_{7}\mathbf{N}_{3}$	*1) 3,4,5-Trinitro-2-Oxy-1-Methylbenzol (J. pr. [2] 67, 553 U. 1903 [2] 240).
	*3) Methyläther d. 2,4,6-Trinitro-1-Oxybenzol. Sm. 58° (Am. 29, 104 C. 1903 [1] 708; R. 22, 269 C. 1903 [2] 198).
O	5) Methylüther d. 2,3,5-Trinitro-l-Oxybenzol. Śm. 1040 (R. 23, 112
C ₇ H ₅ N ₂ Cl	4) 5 - oder - 6 - Chlorbenzimidazol. Sm. 125 °. (2 HCl, PtCl ₄), (HCl, AuCl ₅) (B. 37, 556 C. 1904 [1] 893).

C7H5ClF2 *1) Chlordifluormethylbenzol (C. 1903 [1] 14). C7H6ON2 *3) 1,3-Phenylenharnstoff (D.R.P. 146914 C. 1903 [2] 1486). 13) Phenylcyanhydroxylamin. 2HCl (B. 37, 1540 C. 1904 [1] 1411). 14) isom. 3-Keto-1,3-Dihydroindazol? Sm. 206°. (Cu, CuSO₄) (J. pr. [2] **69**, 94 *C*. **1904** [1] 729). *5) 3,5-Dichlor-4-Oxy-1-Methylbenzol. Sm. 39°; Sd. 235-240° (A. 328, C,H,OCl, 278 C. 1903 [2] 1245). Ricininsäure. Zers. bei 320° (C. r. 138, 506 C. 1904 [1] 896). C,HON 11) Ricininsäure. 8) 3,5-Dichlor-1-Oxy-4-Keto-1-Methyl-1,4-Dihydrobenzol. Sm. 1230 C,HO,Cl (A. 328, 298 C. 1903 [2] 1248). 8) 1-Methyläther d. ?-Dibrom-1, 2-Dioxybenzol. Sm. 94-95° (C. 1903) $C_7H_6O_2Br_2$ [1] 1339). *4) anti-2-Nitrobenzaldoxim. Sm. 102—103° (B. 36, 4268 C. 1904 [1] $C_7H_6O_3N_2$ *5) syn-2-Nitrobenzaldoxim. Sm. 148-150° (B. 36, 4269 C. 1904 [1] 374). *6) anti-3-Nitrobenzaldoxim. Sm. 121° (B. 36, 4270 C. 1904 [1] 374; B. 37, 180 C. 1904 [1] 880). *7) syn-3-Nitrobenzaldoxim (B. 36, 4270 C. 1904 [1] 374; B. 37, 181 O. 1904 [1] 880). *8) anti-4-Nitrobenzaldoxim. Sm. 130° (B. 36, 4269 C. 1904 [1] 374). *9) syn-4-Nitrobenzaldoxim. Sm. 174° (B. 36, 4269 C. 1904 [1] 374). 25) 3-Nitro-4-Nitroso-1-Methylbenzol. Sm. 145—145,4° (B. 36, 3821 C. 1904 [1] 18). 26) Aldehyd d. 4-Nitro-2-Amidobenzol-1-Carbonsäure. Sm. 124° (B. 37. 1862 C. 1904 [1] 1600). 27) Aldehyd d. 5-Nitro-2-Amidobenzol-1-Carbonsäure. Sm. 200,5 bis 201° (M. 24, 98 C. 1903 [1] 921). 28) Aldehyd d. 6-Nitro-3-Amidobenzol-1-Carbonsäure (M. 24, 8 C. 1903 [1] 775). 29) Aldehyd d. 3-Nitro-4-Amidobenzol-I-Carbonsäure. Sm. 190,5 bis 191° (M. 24, 92 C. 1903 [1] 921). 6) 3,6-Dichlor-2,4,5-Trioxy-1-Methylbenzol. Sm. 77—78° (A. 328, C7H6O8Cl2 320 C. 1903 [2] 1247). *1) 3,5-Dibrom-2,4,6-Trioxy-1-Methylbenzol. Sm. 132—134° (M. 25. C,H,O,Br, 315 C. 1904 [1] 1494). *7) 2,4-Dinitro-I-Methylbenzol. Sm. 71° (C. 1903 [2] 194). *8) 2,5-Dinitro-I-Methylbenzol. Sm. 48° (C. 1903 [2] 194). $C_7H_6O_4N_2$ *13) 2,4-Dinitroso-3,5-Dioxy-1-Methylbenzol (B. 37, 1406 C. 1904 [1] 1416). *17) 3-Nitro-2-Amidobenzol-1-Carbonsäure (C. 1903 [2] 1174). *19) 5-Nitro-2-Amidobenzol-1-Carbonsäure. Sm. 269,5° (B. 36, 1802 C. 1903 [2] 283). *24) 3-Nitro-4-Amidobenzol-I-Carbonsäure. Sm. 284° (D.R.P. 151725 C. 1904 [1] 1588). 32) 6-Nitro-2-Amidobenzol-1-Carbonsäure. Sm. 180° u. Zers. (B. 35, 3863 C. 1903 [1] 154). 33) Amid d. 1,4-Pyron-2,6-Dicarbonsäure (B. 37, 3752 C. 1904 [2] 1539). 2) 2,6-Diketo-3-Methylpurin-8-Carbonsäure + 2H₂O (D.R.P. 153121 C7H6O4N4 C. 1904 [2] 625). 1) Verbindung (aus 2-Amido-3, 5-Dioxy-1-Methylbenzol). (B. 37, 1428 C. 1904 [1] 1418). Sm. 117° C7H6O4Cl2 6) Aldehyd d. Benzol-1-Carbonsäure-4-Sulfonsäure. Na (D.R.P. 154528 C7H8O4S C. 1904 [2] 1269). 1) Oxymerkurosalicylsäure. NH₄ (G. 32 [2] 308 C. 1903 [1] 579). C,H,O,Hg *7) Methyläther d. 2,3-Dinitro-1-Oxybenzol. Sm. 118,8° (Am. 29, 447) $C_7H_6O_5N_2$ C. 1903 [1] 510; R. 22, 280 C. 1903 [2] 198). *8) Methyläther d. 2,4-Dinitro-l-Oxybenzol. Sm. 86,9° (Am. 29, 447 C. 1903 [1] 510; R. 22, 267 C. 1903 [2] 198).

*9) Methyläther d. 2, 5-Dinitro-1-Oxybenzol. Sm. 97° (Am. 29, 447)

C. 1903 [1] 510; R. 22, 280 C. 1903 [2] 198).

*10) Methyläther d. 2,6-Dinitro-l-Oxybenzol. Sm. 117,5° (Am. 29, 447)

C. 1903 [1] 510; R. 22, 267 C. 1903 [2] 198).

\$C_7H_6O_5N_2\$ *11) Methyläther d. 3,4-Dinitro-1-Oxybenzol. Sm. 69,3° (Am. 29, 447 C. 1903 [1] 510; R. 22, 280 C. 1903 [2] 198).
*12) Methyläther d. 3,5-Dinitro-1-Oxybenzol. Sm. 105,8° (Am. 29, 447) C. 1903 [1] 510). 3) 2,6-Dinitro-4-Ámidobenzaldoxim? Sm. 243° (B. 36, 961 C. 1903 C, H,O, N, [1] 969). *1) Benzol-1-Carbonsäure-2-Sulfonsäure. Na₂ (Am. 30, 271 C. 1903 C,HOS [2] 1119). *2) Benzol-I-Carbonsäure-3-Sulfonsäure (M. 23, 1108 C. 1903 [1] 396). *3) Benzol-1-Carbonsäure-4-Sulfonsäure. Na (M. 23, 1132 C. 1903 [1] 396). *2) 3,5-Dinitro-2,4-Dioxy-1-Methylbenzol. Sm. 90° (J. pr. [2] 67, 550 C,HO,N C. 1903 [2] 240; J. pr. [2] 67, 556 C. 1903 [2] 240).

*5) I-Methyläther d. 3,5-Dinitro-1,2-Dioxybenzol. Sm. 122° (M. 23, 1030 C. 1903 [1] 288; B. 36, 2257 C. 1903 [2] 428; R. 23, 112 C. 1904 [2] 205). *9) 1-Methyläther d. 4,6-Dinitro-1,3-Dioxybenzol. Sm. 110° (R. 23, 122 C. 1904 [2] 206). *3) 2.4,6-Trinitro-3-Amido-1-Methylbenzol. Sm. 138° (R. 21, 332) C,HON C. 1903 [1] 78). *1) 2-Oxybenzol-I-Carbonsäure-5-Sulfonsäure. (NH4, HF) (A. 328, 146 $C_7H_6O_6S$ C. 1903 [2] 992).

1) Aldehyd d. Benzol-1-Carbonsäure-2,4-Disulfonsäure. $Na_2 + 2H_2O$ C7H6O7S2 (D.R.P. 98321; D.R.P. 154528 C. 1904 [2] 1269). — *III, 15. 2) Aldehyd d. Benzol-1-Carbonsäure-2, 5-Disulfonsäure (D.R.P. 91315). *III, 16. 2) 3,4,5-Trioxybenzol-1-Carbonsäure-2-Sulfonsäure. K, Ba + H₂O, Bi C, H,O,S (D. R.P. 74602). — *II, 1112. 2) polym. Anhydroformaldehyd-m-Chloranilin. Sm. 2280 (B. 36, 46 C, H, NCl C. 1903 [1] 504). 7) 2,5,6-Trichlor-3-Amido-1-Methylbenzol. Sm. 66-67° (Soc. 85, 1281 C, H, NCl C. 1904 [2] 1293). 10) 2,4,6-Tribrom-1-Methylamidobenzol. Sm. 37° (B. 37, 2344, 2346 C, H, NBr, C. 1904 [2] 433). *3) 1,4-Phenylenthioharnstoff. Sm. 279 (Ar. 241, 163 C. 1903 [2] 109). C,H,N,S *4) 1-Amidobenzthiazol (A. 212, 326; B. 36, 3135 C. 1903 [2] 1071). 1) P-Chlor-5-Amidoindazol. Sm. 172-173 (B. 37, 2585 C. 1904 [2] 659). C,H,N,Cl *2) 4-Brom-1-Chlormethylbenzol. Sm. 41°; Sd. 236° (R. 23, 99 U. 1904) C, H, ClBr [1] 1136). *3) 3-Chlor-5-Brom-1-Methylbenzol. Sm. 25-26° (Soc. 85, 1269 C. 1904 [2] 1302). 6) 2-Chlor-3-Brom-1-Methylbenzol. Sd. 125-135° (Soc. 85, 1266 C. 1904 [2] 1302). 7) 2-Chlor-4-Brom-1-Methylbenzol. C. 1904 [2] 1302). 8) 2-Chlor-5-Brom-1-Methylbenzol. Sd. 100-110° (Soc. 85, 1267 Sd. 127-129 45 (Soc. 85, 1267 C. 1904 [2] 1302). 9) 2-Chlor-6-Brom-1-Methylbenzol. Sd. 118-120% (Soc. 85, 1268 C. 1904 [2] 1302). Sd. 103-105° (Soc. 85, 1266 10) 3-Chlor-2-Brom-1-Methylbenzol. C. 1904 [2] 1302). 11) 3-Chlor-4-Brom-1-Methylbenzol. Sd. 125-130% (Soc. 85, 1269 C. 1904 [2] 1302). 12) 3-Chlor-6-Brom-1-Methylbenzol. Sd. 98-100° (Soc. 85, 1267) 13) 4-Chlor-2-Brom-1-Methylbenzol. Sd. 112-114 (Soc. 85, 1267 C. 1904 [2] 1302). 14) 4-Chlor-3-Brom-1-Methylbenzol. Sd. 120-125° (Soc. 85, 1269 C. 1904 [2] 1302). *4) anti-Benzaldoxim. + HgNO₃, 2 + AgNO₃ (C. 1903 [2] 878).

*8) Aldehyd d. 2-Amidobenzol-I-Carbonsäure (C. r. 136, 371 C. 1903 [1] 635; M. 24, 94 C. 1903 [1] 921; B. 36, 2046 C. 1903 [2] 382).

*10) Aldehyd d. 4-Amidobenzol-I-Carbonsäure (M. 24, 87 C. 1903 [2] 382). C,H,ON [1|921).

*11) Amid d. Benzolcarbonsäure (J. pr. [2] 70, 307 C. 1904 [2] 1567).

$\mathbf{C}_{7}\mathbf{H}_{7}\mathbf{ON}$	*12)	Phenylamid d. Ameisensäure. Sm. 47°; Sd. 166° ₁₄ (B. 36, 2476 C. 1903 [2] 559).
	18)	4-Imido-1-Keto-2 [oder 3]-Methyl-1,4-Dihydrobenzol. HCl (B. 37, 1680 C. 1904 [1] 1496).
C_7H_7OC1		isom. anti-Benzaldoxim. Sm. 5° (B. 37, 3043 C. 1904 [2] 1215). 3-Chlor-4-Oxy-l-Methylbenzol. Sd. 194—196° (A. 328, 277 C. 1903
07117001		[2] 1245).
		2-Chlor-1-Oxymethylbenzol. Sm. 72° (B. 37, 3696 C. 1904 [2] 1387). 6-Chlor-2-Oxy-1-Methylbenzol. Sm. 86° (B. 37, 1019 C. 1904 [1]
	11)	1202). 2-Chlor-4-Oxy-I-Methylbenzol. Sm. 55°; Sd. 228° ₇₆₀ (D.R.P. 156333 C. 1904 [2] 1673).
C_7H_7OBr		3-Brom-1-Oxymethylbenzol. Sd. 250° (B. 37, 3693 C. 1904 [2] 1387).
	,	6-Brom-2-Oxy-1-Methylbenzol. Sm. 95° (B. 37, 1022 C. 1904 [1] 1203).
	12)	2-Brom-4-Oxy-1-Methylbenzol. Sm. 55—56°; Sd. 245—246° (D.R.P. 156333 C. 1904 [2] 1673).
C_7H_7OJ	*9)	3-Jodoso-1-Methylbenzol. Zers. bei 206-207°. HClO ₄ , HJO ₈ , HNO ₈ , H ₂ CrO ₄ , H ₂ SO ₄ (A. 327, 269 C. 1903 [2] 350).
	10)	6-Jod-2-0xy-1-Methylbenzol. Sm. 90° (B. 37, 1024 C. 1904 [1] 1203).
$\mathbf{C_7H_7O_2N}$	*3)	2-Nitro-1-Methylbenzol. + AlCl ₃ (Bl. [3] 31, 133 C. 1904 [1] 721; Soc. 85, 1108 C. 1904 [2] 976).
	*5)	4-Nitro-1-Methylbenzol (B. 36, 4260 C. 1904 [1] 402).
	*14)	Benzhydroxamsäure (G. 33 [2] 241 C. 1904 [1] 24; G. 33 [2] 305 C. 1904 [1] 288).
	*16)	2-Amidobenzol-1-Carbonsäure (C. 1903 [1] 922; D.R.P. 146716 C. 1903 [2] 1226; D.R.P. 145604 C. 1903 [2] 1099; B. 37, 592 C. 1904
	*25)	[1] 881). Pyridinbetain. HCl (A. 326, 318 C. 1903 [1] 1088).
	•	Methylbetaïn d. Pyridin-3-Carbonsäure (M. 24, 709 C. 1904 [1] 218).
	*39)	2-Methylpyridin-6-Carbonsäure. Sm. 128—129° (B. 36, 2908 C. 1903 [2] 890).
	*40)	Methylbetain d. Pyridin-4-Carbonsäure. Sm. 264° (M. 24, 705 C. 1903 [2] 1282; M. 24, 710 C. 1904 [1] 218).
	*43)	Methylather d. 4-Nitroso-1-Oxybenzol. Sm. 23° (B. 37, 44 C. 1904 [1] 654).
	45)	2-Nitroso-1-Oxymethylbenzol. Sm. 101° (B. 36, 838 C. 1903 [1] 1028).
	46)	2-Formylamido-1-Oxybenzol. Sm. 129—129,5° (B. 36, 833 C. 1903 1027; B. 36, 2044 C. 1903 [2] 383; B. 36, 2052 C. 1903 [2] 383).
	47)	4-Formylamido-1-Oxybenzol. Sm. 139—140° (D.R.P. 146265 C. 1903 [2] 1227).
	48)	Aldehyd d. 4-Hydroxylamidobenzol-1-Carbonsäure (D.R.P. 89978 C. 1897 [1] 351; B. 36, 2304 C. 1903 [2] 428).
$\mathbf{C_7H_7O_2N_3}$	*5)	4-Semicarbazon-1-Keto-1,4-Dihydrobenzol. Zers. bei 178° (A. 334, 175 C. 1904 [2] 834).
	*11)	Amid d. Pyridin-2,6-Dicarbonsäure. Sm. 302° (M. 24, 207 C. 1903 [2] 48).
	*15)	α -Nitroso- α -Phenylharnstoff (M. 24, 853 C. 1904 [1] 364).
		Aethylester d. $\alpha\beta$ -Dicyan- β -Imidopropionsäure. Sm. 162° u. Zers. (A. 332, 155 C. 1904 [2] 192).
$\mathbf{C}_{7}\mathbf{H}_{7}\mathbf{O}_{2}\mathbf{Br}$	·	2-Brom-4-Oxy-1-Oxymethylbenzol. Sm. 137—138° (A. 334, 330 C. 1904 [2] 988).
$\mathbf{C}_{7}\mathbf{H}_{7}\mathbf{O}_{2}\mathbf{J}$	*6)	3-Jodo-1-Methylbenzol. Zers. bei 220° (A. 327, 272 C. 1903 [2] 350). 2-Nitro-1-Oxymethylbenzol (B. 37, 3429 C. 1904 [2] 1213).
C ₇ H ₇ O ₈ N	*5)	3-Nitro-2-Oxy-1-Methylbenzol. Sm. 64,5°. Na + $2H_2O$, K + $\frac{1}{2}H_2O$, Rb + $\frac{1}{2}H_2O$, Rb + $\frac{1}{2}O$, Rb + $\frac{1}{2}$
	*7)	[1] 1076). 5-Nitro-2-Oxy-1-Methylbenzol. Sm. 93—95° (A. 330, 94 C. 1904)
4	*81	[1] 1075). 6-Nitro-2-Oxy-1-Methylbenzol. Sm. 145° (B. 37, 1020 C. 1904 [1]
	-/	1202).

C,H,ON,

[2] 559).

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*13) 3-Nitro-4-Oxy-1-Methylbenzol. Sm. 34° (Am. 32, 15 C. 1904[2]696).
C_7H_7O_3N
             *17) Methyläther d. 4-Nitro-1-Oxybenzol (R. 23, 37 C. 1904 [1] 1137).
             *18) 2-Nitroso-3,5-Dioxy-Methylbenzol (B. 36, 882 U. 1903 [1] 964).
              46) 1-Methyläther d. 4-Nitroso-1,3-Dioxybenzol.
                                                                            K (B. 35, 1477 C.
              1902 [1] 1208; J. pr. [2] 70, 337 C. 1904 [2] 1542).
47) 5-Methyläther d. 2-Oximido-5-Oxy-1-Keto-1,2-Dihydrobenzol.
                  Sm. 168° (B. 35, 1478 C. 1902 [1] 1208; J. pr. [2] 70, 337 C. 1904
                   [2] 1542).
               48) 3-Amido-1-Oxybenzol-P-Carbonsäure. Sm. 148° u. Zers. HCl, H<sub>2</sub>SO<sub>4</sub>
                  (D.R.P. 50835). — *II, 915.
               *2) 3-Nitro-1-Methylnitrosamidobenzol. Sm. 67° (A. 327, 112 C. 1903
C_7H_7O_8N_8
                   [1] 1213).
               *3) 4-Nitro-1-Methylnitrosamidobenzol. Sm. 104° (A. 327, 113 C. 1903
                  [1] 1213).
              22) 4-Nitro-2-Amidobenzaldoxim. Sm. 193° (B. 37, 1864 C. 1904 [1] 1600). 23) 5-Nitro-2-Amidobenzaldoxim. Sm. 203° (M. 24, 98 C. 1903 [1] 922).
 C,H,O,Br
                4) 3-Brom-2,4,6-Trioxy-1-Methylbenzol + ^4H_2O. Sm. 129—130° (\dot{M}.
                   25, 316 C. 1904 [1] 1494).
               *4) 2-Nitro-3, 5-Dioxy-1-Methylbenzol (β-Nitroorcin). Sm. 122°. K, Ag
 C_7H_7O_4N
                  (B. 36, 887 C. 1903 [1] 965).
               *5) 4-Nitro-3, 5-Dioxy-1-Methylbenzol (\alpha-Nitroorcin). Sm. 1270 (B. 36,
                  887 C. 1903 [1] 965).
               *6) 2-Methyläther d. 4-Nitro-1,2-Dioxybenzol. Sm. 105° (B. 36, 2257
                   C. 1903 [2] 428).
               *7) 1-Methyläther d. 4-Nitro-1, 3-Dioxybenzol. Sm. 95° (R. 21, 322
                   C. 1903 [1] 79).
             *10) Pyromekursäure. Sm. 165° (B. 37, 2956 C. 1904 [2] 993).
             *13) Amid d. 3,4,5-Trioxybenzol-I-Carbonsäure. BiOH + H<sub>2</sub>O (Bl. [3]
                   29, 531 C. 1903 [2] 243).
              19) 6-Nitro-2,5-Dioxy-1-Methylbenzol. Sm. 117-118° (Soc. 85, 528
                   C. 1904 [1] 1256, 1490).
              20) 1-Methyläther d. 3-Nitro-1,2-Dioxybenzol. Sm. 103 ° (B. 36, 2257
                   C. 1903 [2] 428).
               21) 3-Methyläther d. 4-Oximido-3, 5-Dioxy-1-Keto-1, 4-Dihydrobenzol.
                  K, Ag (M. 23, 949 C. 1903 [1] 285).
               22) P-Amido-2,4-Dioxybenzol-1-Carbonsäure + H<sub>2</sub>O. Sm. 193 (wasser-
              frei). HCl + 2H_2O, H_2SO_4 (M. 25, 41 C. 1904 [1] 723). 23) P-Acetylamidofuran-2-Carbonsäure. Zers. bei 285°. Ca + 7H_2O (C. r. 136, 1455 C. 1903 [2] 292).
                                                                 Zers. bei 285°. K + 5H_2O,
                2) Verbindung (aus 2-Amido-3,5-Dioxy-1-Methylbenzol). Sm. 97° (B. 37,
C<sub>7</sub>H<sub>7</sub>O<sub>4</sub>Cl<sub>3</sub>
                  1427 C. 1904 [1] 1418).
C,H,O,N
              *1) Aethylester d. ?-Nitrofuran-2-Carbonsäure (C. r. 137, 520 C. 1903
                   [2] 1069).
C<sub>7</sub>H<sub>7</sub>O<sub>5</sub>N<sub>9</sub>
              13) 3,5-Dinitro-2-Amido-4-Oxy-Methylbenzol. Sm. 141—142° (J. pr. [2]
                  67, 552 C. 1903 [2] 240).
              14) Methyläther d. 3, 5-Dinitro-2-Amido-1-Oxybenzol. Sm. 1740 (R. 23,
                  113 C. 1904 [2] 205)
              15) Methyläther d. 4, 6-Dinitro-3-Amido-1-Oxybenzol. Sm. 156° (R. 23, 121 C. 1904 [2] 206).
             *10) 3,5-Dibrom-4-Amido-l-Methylbenzol. Sm. 73° (C. 1903 [2] 1052). 13) 2,4-Dibrom-l-Methylamidobenzol. Sm. 48°. (HBr, \mathrm{Br_2}) (B. 37, 2345)
C,H,NBr.,
                  C. 1904 [2] 433).
C_7H_7NS
              st1) Amid d. Benzolthiocarbonsäure (C. r. 136, 556 C. 1903 [1] 816).
              *2) Phenylamid d. Thioameisensäure. Sm. 138° (B. 37, 3714 C. 1904
                  [2] 1449).
               3) Thioformimidophenyläther. HCl (B. 36, 3468 C. 1903 [2] 1244).
              *1) Amid d. Benzolselencarbonsäure. Sm. 115° (B. 37, 2551 C. 1904
C,H,NSe
                  [2] 520).
               4) 3-Methyldiazobenzolchlorid (A. 325, 302 C. 1903 [1] 704).
4) 3-Jod-1-Methylbenzoldichlorid. Zers. bei 104° (A. 327, 269 C. 1903
C7H7N2C1
C_7H_7Cl_3J
                  [2] 350).
C,H,JF,
               1) 4-Methylbenzoljodidfluorid. Sm. 112° (A. 328, 137 C. 1903 [2] 990).
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*4) Methylnitrosamidobenzol. Sd. 120,9-121,5% (B. 36, 2477 C. 1903

*7) 2-Amidobenzaldoxim (B. 36, 803 C. 1903 [1] 977). *14) 4-Methyldiazobenzol. Sulfat (Am. 31, 24 C. 1904 [1] 440). $C_7H_8ON_2$ *23) Amid d. 4-Amidobenzol-1-Carbonsaure. Sm. 178-1796 (C. 1903 [2] 113). *25) Hydrazid d. Benzolcarbonsäure (J. pr. [2] 69, 154 C. 1904 [1] 1274). *26) s-Formylphenylhydrazin. Sm. 145° (C. 1903 [1] 829). *1) Methylnitramidobenzol (B. 36, 2505 C. 1903 [2] 489. *3) 3-Nitro-1-Methylamidobenzol (A. 327, 112 C. 1903 [1] 1213). C7H8ON *11) 4-Nitro-2-Amido-1-Methylbenzol. Sm. 107° (C. 1903 [2] 1051). *12) 5-Nitro-2-Amido-1-Methylbenzol. Sm. 128° (C. 1903 [2] 1051). *13) 6-Nitro-2-Amido-1-Methylbenzol. Sm. 91,5° (92°) (C. 1903 [2] 1051; B. 37, 1018 C. 1904 [1] 1202). *19) 3-Nitro-4-Amido-1-Methylbenzol. Sm. 1170. d-Camphersulfonat (C. 1903 [1] 1338; 1903 [2] 1051). *22) & Dicyanacetylaceton (2, 3 - Diimido - 1, 1 - Diacetyl - R-Trimethylen?). Sm. 162° (A. 332, 147 C. 1904 [2] 191). *24) 4-Methylphenylnitrosohydroxylamin (G. 33 [2] 243 C. 1904 [1] 24). *40) 2,4-Diamidobenzol-1-Carbonsäure. Sm. 140°. 2HCl (B. 36, 1803 C. 1903 [2] 283). *42) 3,4-Diamidobenzol-1-Carbonsaure. Sm. 210-2110 (B. 36, 4032 C. 1904 [1] 294). *51) Nitril d. α-Imido-γ-Keto-β-Aethanoylbutan-α-Carbonsäure (α-Dicyanacetylaceton) (A. 332, 146 C. 1904 [2] 191). *52) Hydrazid d. 2-Oxybenzol-1-Carbonsäure. Sm. 147° (C. 1904 [2] 1493). *63) 2-Hydroxylamidobenzaldoxim (B. 36, 3656 C. 1903 [2] 1332). 68) β -Dicyanacetylaceton. Sm. 227° (A. 332, 146 C. 1904 [2] 191). 69) γ -Dicyanacetylaceton. Sm. 211° (A. 332, 146 C. 1904 [2] 191). *4) Theophyllin (D.R.P. 138444 C. 1903 [1] 370; D.R.P. 151133 C. 1904 C,H,O,N, [1] 1430). *7) Theobromin (C. 1903 [1] 237; D.R.P. 151133 C. 1904 [1] 1430) *2) 1-Methylbenzol-4-Sulfinsäure. m-Toluidinsalz (J. pr. [2] 68, 289 C, H, O, S C. 1903 [2] 995). $C_7H_8O_8N_2$ *27) 5-Acetyl-4-Methylpyrazol-3-Carbonsäure + H₂O. Sm. 235 (wasserfrei) (A. 325, 182 C. 1903 [1] 646). 31) 2-Nitro-6-Amido-3-Oxy-1-Methylbenzol. Sm. 190° u. Zers. (Soc. 85, 527 C. 1904 [1] 1256, 1490). 32 5-Nitro-3-Amido-4-Oxy-1-Methylbenzol (D.R.P. 139213 C. 1903 [1] 679). 33) 3-Acetyl-4-Methylpyrazol-5-Carbonsäure. Sm. 233° (B. 36, 1131 C. 1903 [1] 1139). 34) Methylderivat d. α -Imido- γ -Ketobutan- α β -Dicarbonsäureimid. Sm. 226-227° (A. 332, 136 C. 1904 [2] 190). 14) 6-Semicarbazidopyridin-3-Carbonsäure. Sm. 277—278°. HCl (B. 36, C, H, O, N, 1114 *C.* 1903 [1] 1184). *1) 1-Methylbenzol-2-Sulfonsäure (D.R.P. 137935 C. 1903 [1] 108). *5) Methylester d. Benzolsulfonsäure. Sd. 154°20 (M. 23, 1096 C. 1903 C,H,O,S [1] 396). 2) 4-Oxybenzolmethyläther-1-Thiolsulfonsäure. p-Phenylendiaminsalz C, H, O,S, (J. pr. [2] 70, 391 C. 1904 [2] 1721). 10) 2,4-Diketo-1,3-Diacetyltetrahydroimidazol. Sm. 104—105° (A. 333, 129 C. 1904 [2] 895). $C_7H_8O_4N_2$ 11) Monoäthylester d. β-Cyan-β-Imidoäthan-αα-Dicarbonsäure. Sm. 238° (A. 332, 119 C. 1904 [2] 189).
 12) Hydrazid d. 3,4,5-Trioxybenzol-1-Carbonsäure. Zers. bei 295—298° (C. 1904 [2] 1494). 7) 2,4-Dinitro-3,5-Diamido-1-Methylbenzol. Sm. 199° (R. 23, 126 C. C7H8O4N4 1904 [2] 200). *7) 4-Oxy-1-Methylbenzol-3-Sulfonsäure. K + H₂O (Am. 31, 34 C. C,H,O,S

1) 1-Methylbenzol-2,4-Disulfinsäure. Fl. Na₂, K₂, Ba, Zn (J. pr. [2]

1904 [1] 441).

68, 332 C. 1903 [2] 1172).

C, H, O, S,

2) Dimethylester d. 4-Oxypyrazol-3,5-Dicarbonsäure. Sm. 232° (A. 335, 107 C. 1904 [2] 1232). $C_7H_8O_5N_2$ C7H8O5S *2) 1,2-Dioxybenzol-I-Methyläther-3-Sulfonsäure (Bl. [3] 29, 365 C. 1904 [1] 365). 6) 1,2-Dioxybenzol-1-Methyläther-4-Sulfonsäure. Sm. noch nicht bei 270° (C. 1900 [2] 459; M. 25, 810 C. 1904 [2] 1119). C,H,NCl *9) 6-Chlor-2-Amido-1-Methylbenzol. Sd. 2450 (B. 37, 1019 C. 1904) [1] 1202). *16) 3-Chlor-4-Amido-1-Methylbenzol. d-Camphersulfonat, d-Bromcamphersulfonat (C. 1903 [1] 1338). 21) Pyridoniumchlorid + H_2O (aus $2-\beta$ -Bromäthylpyridin). $2 + PtCl_4$ (B. 37, 166 C. 1904 [1] 672). C,H,NBr 15) 6-Brom-2-Amido-1-Methylbenzol. Sd. 253-255°. H. SO. (B. 37, 1022 C. 1904 [1] 1203). 16) 2-[β-Bromäthyl]pyridin. Fl. (2HCl, PtCl₄), Pikrat (B. 37, 165 C. 1904 [1] 672). 17) Pyridoniumbromid + H₂O (aus 2-β-Bromäthylpyridin). Sm. 226—227° (B. 37, 165 C. 1904 [1] 672). 5) 6-Jod-2-Amido-1-Methylbenzol. Fl. HCl (B. 37, 1024 C. 1904 [1] C,H,NJ 1203). 6) 2-[β-Jodäthyl]pyridin. (2HCl, PtCl₄), Pikrat (B. 35, 1345; B. 37, 161 C. 1904 [1] 672). 7) Pyridoniumjodid (aus 2-β-Jodäthylpyridin). Sm. 211—213° (B. 37, 162 C. 1904 [1] 672). 3) 2, 6-Dichlor-4-Methyl-5-Aethyl-1, 3-Diazin. Sm. 39°; Sd. 255° (B. C,H,N,Cl, 36, 1917 C. 1903 [2] 208). C,H,N,S *2) Amid d. 3-Amidobenzol-1-Thiocarbonsäure. Sm. 1390 (B. 35, 3934 C. 1903 [1] 38). *3) Amid d. 4-Amidobenzol-1-Thiocarbonsäure. Sm. 172° (C. 1903 [2] 113). 4) Amid d. 2-Amidobenzol-1-Thiocarbonsäure. Sm. 121-1220 (C. 1903 [1] 1270). 2) Phenylazothioharnstoff. Sm. 110-111° u. Zers. (B. 37, 2380 C. C,H,N,S 1904 [2] 322). *1) 2-Amido-l-Oxymethylbenzol. Sm. 83°. (2 HCl, PtCl₄) (M. 23, 983 C₇H₉ON C. 1903 [1] 288; C. r. 136, 371 C. 1903 [1] 635; B. 37, 2260 C. 1904 [2] 212) *3) 4-Amido-l-Oxymethylbenzol (D.R.P. 83544; M. 23, 977 C. 1903 [1] 288). *7) 6-Amido-2-Oxy-1-Methylbenzol. Sm. 129° (B. 37, 1021 C. 1904 [1] 1203).*18) Methyläther d. 4-Amido-1-Oxybenzol. (2HCl, PtCl₄) (B. 36, 2966 7. **190**3 [2] 1007). *33) 2-[β-Oxyäthyl]pyridin (B. 37, 161 C. 1904 [1] 672). *39) 4-Keto-2,6-Dimethyl-1,4-Dihydropyridin (Lutidon). 1/2 HCl, HBr, 1/2 HJ, (HJ, J₂) (C. 1903 [1] 167; J. pr. [2] 67, 45 C. 1903 [1] 723). *10) Hydrazid d. Phenylamidoameisensäure. Sm. 122° (J. pr. [2] 70, C,HON, 244 C. 1904 [2] 1463). *11) Hydrazid d. 2-Amidobenzol-1-Carbonsäure. Sm. 123°. 2HCl (*J. pr*. [2] 69, 92 C. 1904 [1] 729). 18) α-Amido-α-Phenylharnstoff. Sm. 118—119°. HCl (B. 36, 1359 C. 1903 [1] 1340). 19) Inn. Anhydrid d. 2-Semicarbazon-1-Oxymethylen-R-Pentamethylen. Sm. 175-177° (A. 329, 115 C. 1903 [2] 1322). C,HO,N *1) 4-Amido-3,5-Dioxy-1-Methylbenzol (\alpha-Amidoorcin). HCl (B. 36, 888 C. 1903 [1] 965). *2) 1-Methyläther d. 3-Amido-1, 2-Dioxybenzol. Sm. 127° (B. 36, 2257 C. 1903 [2] 428). *32) 5-Amido-2-Oxy-1-Oxymethylbenzol. Sm. 135—142° (D.R.P. 148977 C. 1904 [1] 699; D.R.P. 149123 C. 1904 [1] 701). 36) 2-Amido-3, 5-Dioxy-1-Methylbenzol (β-Amidoorcin). HCl, H,SO4

Pikrat + H_2O , Oxalat, Ferrocyanat (B. 36, 888 C. 1903 [1] 965; B. 37, 1420 C. 1904 [1] 1417; B. 37, 1425 C. 1904 [1] 1418).

		— 15 — YIII.
$\mathbf{C_7H_9O_2N}$	37)	3-Amido-4-Oxy-1-Oxymethylbenzol. Sm. 112—114° (D.R.P. 148977
		C. 1904 [1] 700; D.R.P. 149123 C. 1904 [1] 701). 2-Hydroxylamido-1-Oxymethylbenzol. Sm. 104,2—104,7° (B. 36,
		836 C. 1903 [1] 1028). 4-Methyläther d. 4-Oxyphenylhydroxylamin. Sm. 98° (B. 37, 43)
$C_7H_9O_2N_3$		C. 1904 [1] 654). 4-Acetylamido-2-Keto-5-Methyl-1, 2-Dihydro-1, 3-Diazin. Zers. bei
		250° (Am. 31, 602 C. 1904 [2] 242).
C ₇ H ₉ O ₂ Cl		2,6-Dimethyl-1,4-Pyronhydrochlorid. Sm. 152—154° (B. 36, 1478 C. 1903 [1] 1349).
$\mathbf{C}_{7}\mathbf{H}_{9}\mathbf{O}_{3}\mathbf{N}$		Aethylester d. Acetylcyanessigsäure. Sm. 26° (B. 37, 3386 C. 1904 [2] 1220).
	13)	Î-Methyläther d. 2-Amido-1,3,5-Trioxybenzol. HCl (M. 23, 951 C. 1903 [1] 285).
	14)	Methylester d. α -Cyan- β -Oxypropenmethyläther- α -Carbonsäure. Sm. 96—97° (Bl. [3] 31, 341 C. 1904 [1] 1135).
	15)	Aethylester d. ?-Amidofuran-2-Carbonsäure. Sm. 95° (C. r. 136, 1454 C. 1903 [2] 292).
$C_7H_9O_3C1$	3)	2-Chlormethyl-5-Methyl-2,3-Dihydrofuran-4-Carbonsäure. Sm. 108-109° (C. r. 137, 14 C. 1903 [2] 508).
$C_7H_9O_3P$		α-Oxybenzylunterphosphorigesäure. Sm. 108° (C. 1904 [2] 1709).
$\mathbf{C}_7\mathbf{H}_9\mathbf{O}_4\mathbf{N}$	0)	Verbindung $+$ H ₂ O (aus 2,5-Dimethyl-1,4-Pyron-3,4-Dicarbonsäurediäthylester). Sm. 166°. Ag (C. 1902 [2] 647; G. 34 [1] 458 C. 1904 [2] 537).
$\mathbf{C}_{7}\mathbf{H}_{0}\mathbf{O}_{4}\mathbf{P}$	*2)	α-Oxybenzylphosphinsäure. Sm. 195°. Ag ₂ (C. r. 135, 1118 C. 1903 [1] 285).
$\mathbf{C}_{7}\mathbf{H}_{9}\mathbf{O}_{6}\mathbf{N}$	2)	α -Aethylester d. β -Imidoäthan- α α β -Tricarbonsäure. Sm. 134°. Na (A. 332, 120 C. 1904 [2] 189).
$\mathbf{C}_{7}\mathbf{H}_{9}\mathbf{O}_{6}\mathbf{N}_{3}$	1)	(A. 352, 120 C. 1504 [2] 159. C 36,4 — H 3,9 — O 41,5 — N 18,2 — M. G. 231. α_{γ} -Diacetat d. β -Nitro- α_{γ} -Dioximidopropan. Sm. 64—66°. Na (Am. 29, 264 C. 1903 [1] 957).
$\mathbf{C}_{7}\mathbf{H}_{9}\mathbf{N}_{8}\mathbf{S}$	*1)	Phenylamidothioharnstoff. Sm. 201° (<i>J. pr.</i> [2] 67, 217 <i>C.</i> 1903 [1] 1260).
	3)	2-Amidophenylthioharnstoff. Sm. 167°. HCl, H_2SO_4 (Ar. 241, 165 C. 1903 [2] 109).
	4)	3-Amidophenylthioharnstoff. Sm. 170°. HCl, H_2SO_4 (Ar. 241, 164
	5)	C. 1903 [2] 109). 4-Amidophenylthioharnstoff. Sm. 190°. HCl, H_2SO_4 (Ar. 241, 162 C. 1903 [2] 109).
$\mathbf{C_7}\mathbf{H_{10}O_2N_2^{'}}$		Trimethyluracil (A. 327, 259 C. 1903 [2] 349). 2,4-Diamido-3,5-Dioxy-1-Methylbenzol. 2HCl (B. 37, 1411 C. 1904
	23)	[1] 1416). 2,6-Diamido-3,5-Dioxy-1-Methylbenzol. 2HCl (B. 37, 1413 C. 1904
	24)	[1] 1417). 2,6-Dioxy-4-Methyl-5-Aethyl-1,3-Diazin. Sm. 238° (B. 36, 1916)
	25)	C. 1903 [2] 208).2-Aethyläther d. 2,6-Dioxy-4-Methyl-1,3-Diazin. Sm. 206°. HCl,
		(2 HCl, PtCl ₄) (C. 1904 [2] 30). 2,4-Diketo-6-Methyl-5-Aethyl-1,2,3,4-Tetrahydro-1,3-Diazin.
	•	Sm. 237° (Am. 29, 490 C. 1903 [1] 1309). Methylester d. α -Cyan- β -Methylamidopropen- α -Carbonsäure.
		Sm. 123° (Bl. [3] 31, 341 C. 1904 [1] 1135). Nitril d. α-Oxyessig-[β-Cyan-α-Aethoxyläthyl]äthersäure. Sm. 181°;
		Sd. 208°_{25} (C. 1904 [1] 159).
$C_7H_{10}O_2Br_2$		Verbindung (aus d. Säure $C_8H_{10}O_4N_2$) = $(C_7H_{10}O_2N_2)_x$ (C. 1904 [1] 159). 3,4-Dibromhexahydrobenzol-1-Carbonsäure. Sm. 86° (Soc. 85, 433
	•	C. 1904 [1] 1082, 1440). Lakton d. $\gamma\delta$ -Dibrom- β -Oxymethyl- β -Methylbutan- δ -Carbonsäure.
		Sm. 152° u. Zers. (M. 25, 15 C. 1904 [1] 718).

 $C_7H_{10}O_3N_2$ 14) 2,4,6-Triketo-5-Propylhexahydro-1,3-Diazin. Sm. 208° (A. 335, 358 C. 1904 [2] 1382).

358 C. 1904 [2] 1382). 15) 2,4,6-Triketo-5-Isopropylhexahydro-1,3-Diazin. Sm. 216° (A. 335, 358 C. 1904 [2] 1382).

- 16) 2,4,6-Triketo-5-Methyl-5-Aethylhexahydro-1,3-Diazin (Methyläthylbarbitursäure). Sm. 212° (D.R.P. 144432 C. 1903 [2] 778; D.R.P. 146496 C. 1903 [2] 1484; A. 335, 343 C. 1904 [2] 1381).
 17) Trimethyläther d. 2,4,6-Trioxy-1,3-Diazin. Sm. 53°; Sd. 232° C, H10 O3 N2 (B. 36, 2235 C. 1903 [2] 449). 18) Aethylester d. 5-Keto-3-Methyl-4, 5-Dihydropyrazol-1-Carbonsäure. Sm. 202°. NH₄, Ag (P. Gutmann, Dissert., Heidelberg 1903).

 19) Aethylester d. 5-Keto-3-Methyl-4,5-Dihydropyrazol-4-Carbon-säure. Sm. 196° (P. Gutmann, Dissert., Heidelberg 1903).

 20) Aethylester d. 3-Keto-5-Methyl-2,3-Dihydropyrazol-2-Carbonsäure. Sm. 202° (P. Gutmann, Dissert., Heidelberg 1903).
 *2) 5-Formylamido-6-Amido-2,4-Diketo-1,3-Dimethyl-1,2,3,4-Tetra-C2H10O3N4 hydro-1,3-Diazin (D.R.P. 148208 C. 1904 [1] 618). $C_7H_{10}O_4N_2$ 10) 4-Oxy-2, 5-Diketo-4-Acetyl-1, 3-Dimethyltetrahydroimidazol (Acetyldimethylallantursäure). Fl. (A. 327, 266 C. 1903 [2] 349). $C_7H_{10}O_4Br_2$ 15) cis- $\gamma\delta$ -Dibrom- β -Methylbutan- $\beta\delta$ -Dicarbonsäure. Sm. 149—151° (Soc. 83, 16 C. 1903 [1] 76, 443).
- (Soc. 83, 18 C. 1903 [1] 76. 443). *4) Chlormethylat d. 2-Methylpyridin. 2 + PtCl₄ (Soc. 83, 1415 C,H,,NCl C. 1904 [1] 439).
- 1) Methyläther d. 2-Merkapto-4, 6-Dimethyl-1, 3-Diazin. Sm. 23-24°; C, H, N, S Sd. 144°_{ss} (Am. 32, 356 \bar{C} . 1904 [2] 1415).
- 2) 2, 6-Dimerkapto 4 Methyl 5 Aethyl-1, 3-Diazin. Zers. bei 2500 C7H10N2S. (B. 36, 1923 C. 1903 [2] 209). C₇H₁₀N₃Cl 1) 6-Chlor-2-Amido-4-Methyl-5-Aethyl-1, 3-Diazin. Sm. 156°. Pikrat
- (B. 36, 1918 C. 1903 [2] 208). 2) 2-Chlor-6-Amido-4-Methyl-5-Aethyl-1, 3-Diazin. Sm. 220° (B. 36,
- 1922 C. 1903 [2] 209). C,H,ON 14) 3-Oximido-1-Methyl-?-Tetrahydrobenzol. Sd. 113—115° (C. 1903) [1] 329).
 - 15) lab. 4-Oximido-5-Methyl-1, 2, 3, 4-Tetrahydrobenzol. Sni. 40—42°;
 Sd. 115—117°; (A. 329, 372 C. 1904 [1] 517).
 16) stab. 4-Oximido-5-Methyl-1, 2, 3, 4-Tetrahydrobenzol. Sm. 62—63°

16) trans-γδ-Dibrom-β-Methylbutan-βδ-Dicarbonsäure. Sm. 215—217°

- (A. 329, 373 C. 1904 [1] 517).
- 17) 3-Methyl-5-Propylisoxazol (oder 5-Methyl-3-Propylisoxazol). Sd. 70
- bis 76°₂₀ (Bl. [3] 27, 1087 C. 1903 [1] 226.
 18) Methylhydroxyd d. 2-Methylpyridin. d-Camphersulfonat (Svc. 83, 1415 C. 1904 [1] 438).
- $C_7H_{11}ON_3$ 5) Anhydrodipropionylguanidin. Sm. 159-160°. (2HCl, PtCl₄) (Ar. 241, 469 C. 1903 [2] 988). 6) 2-Amido-6-Oxy-4-Methyl-5-Aethyl-1,3-Diazin. Zers. bei 285°
 - (B. 36, 1915 C. 1903 [2] 208).
 - 7) Semicarbazonanhydrid d. Keton $C_6H_{10}O_2$. Sm. 116° (C. r. 137, 1205) C. 1904 [1] 356).
 - 8) isom. Semicarbazonanhydrid d. Keton C₆H₁₀O₂. Sm. 280° u. Zers. (C. r. 137, 1295 C. 1904 [1] 356).
 4) 4-Chlor-3-Keto-1-Methylhexahydrobenzol. Sd. 110—111% (C. 1903)
- C,H,OCl [2] 289; 1904 [1] 1346; 1904 [2] 220). $C_7H_{11}O_2N$ *18) Imid d. Pentan- $\beta\delta$ -Dicarbonsäure. Sm. 173-175° (Soc. 83, 358
 - C. 1903 [1] 1122) 29) Imid d. eis- β -Methylbutan- $\alpha\gamma$ -Dicarbonsäure. Sm. 108° (Bl. [3]
 - **29**, 333 *C.* **1903** [1] 1216). 30) Imid d. β-Methylbutan-αγ-Dicarbonsäure. Sm. 113°. Ag (Soc. 83, 356 C. 1903 [1] 389, 1122).
 - 31) Verbindung (aus Methylamin u. 1,2-Dioxybenzol). Sm. 980 (D.R.P. 141 101 C. 1903 [11 1058).
 - 32) Verbindung (aus Methylamin u. 1,4-Dioxybenzol). Sm. 110° (D.R.P. 141101 C. 1903 [1] 1058).

 *7) Amid d. 5-Keto-3-Propyl-4,5-Dihydropyrazol-1-Carbonsäure.
 Sm. 189° (Bl. [3] 27, 1092 C. 1903 [1] 226).
- $\mathbf{C}_{7}\mathbf{H}_{11}\mathbf{O}_{2}\mathbf{N}_{3}$
 - 8) Aethyläther d. 1-Nitroso-5-Oxy-3,4-Dimethylpyrazol. Sm. 34° (B. 37, 2833 C. 1904 [2] 642).
 - 9) Methylester d. Histidin. Fl. 2HCl (H. 42, 515 C. 1904 [2] 1290).

 $C_7H_{11}O_2Br$ 5) 3-Bromhexahydrobenzol-1-Carbonsäure. Sm. 122° (Soc. 85, 432) C. 1904 [1] 1082, 1440). 6) trans-4-Bromhexahydrobenzol-I-Carbonsäure. Sm. 167° (Soc. 85, 431 *C.* **1904** [1] 1082, 1439). 7) Lakton d. γ-Brom-δ-Oxy-β-Methylpentan-β-Carbonsäure. Sm. 82 bis 83° (Soc. 85, 159 C. 1904 [1] 720).
*9) r-Ecgoninsäure. Sm. 93-94°. Cu + 2¹/₂H₂O, Ag, HCl (A. 326, 83) $C_7H_{11}O_3N$ C. 1903 [1] 842). 10) 4-Oximidohexahydrobenzol-1-Carbonsäure. Sm. 147° (Soc. 85, 427 C. 1904 [1] 1439). 11) Aethylester d. β -Cyan- β -Oxybuttersäure (D.R.P. 141509 C. 1903 [1] C7H11O8N5 C 39.4 - H 5.2 - O 22.5 - N 32.9 - M. G. 213.1) Aethylester d. 1-Ureïdo-5-Methyl-1, 2, 3-Triazol-4-Carbonsäure. Sm. 201° (A. 325, 161 C. 1903 [1] 645). 1) γ -Jod- β -Methylbutan- $\beta\delta$ -Dicarbonsäure. Sm. 168° u. Zers. (C. r. 136. $\mathbf{C}_{7}\mathbf{H}_{11}\mathbf{O}_{4}\mathbf{J}$ 1463 *C.* **1903** [2] 282). $C_7H_{11}O_5N$ *4) Diäthylester d. Oximidomethandicarbonsäure. Sm. 172, ... (C. r. 137, 197 C. 1903 [2] 658). *5) Diäthylester d. Stickstoffcarbonsäureketocarbonsäure (Carboxäthyloxamāthan). Sm. 47; Sd. 143—144°₉ (B. 37, 3680 C. 1904 [2] 1495).

*1) Diäthylester d. Nitromalonsäure. NH₄ (C. 1903 [2] 343; B. 37, 1784 C. 1904 [1] 1483; M. 25, 702 C. 1904 [2] 1109).

2) Dimethyläthylester d. Stickstofftricarbonsäure. Sd. 127—137°₁₀ $\mathbf{C}_{7}\mathbf{H}_{11}\mathbf{O}_{6}\mathbf{N}$ (B. 37, 3675 C. 1904 [2] 1495). *1) Semicarbazon d. d-Glykuronsäurelakton. Sm. 188—189° (202 bis 206°?) (H. 41, 245 C. 1904 [1] 1095; H. 41, 548 C. 1904 [2] 422). $C_7H_{11}O_6N_3$ 2) Carboxylamidoacetylamidoacetylamidoessigsäure (Diglycylglycincarbonsäure). Sm. 210 u. Zers. (B. 36, 2101 C. 1903 [1] 1304). C,H,N,S 4) 2-Amido-6-Merkapto-4-Methyl-5-Aethyl-1, 3-Diazin. Sm. 230—245° (B. 36, 1921 C. 1903 [2] 209) 5) Aethyläther d. 4-Amido-2-Merkapto-5-Methyl-1,3-Diazin. Sm. 96 bis 97° (Am. 31, 597 C. 1904 [2] 242). *8) Amid d. δ -Cyan- β -Methylbutan- δ -Carbonsäure. Sm. 104—104,5°; Sd. 275—280°,45 (C. 1903 [2] 192). C,H12ON2 *10) 5-Keto-3-Isobutyl-4,5-Dihydropyrazol. Sm. 239° (Bl. [3] 27, 1093 C. 1903 [1] 226). *11) 5-Keto-4-Methyl-3-Propyl-4,5-Dihydropyrazol, Sm. 184° (Bl. [3] **27**, 1102 *C*. **1903** [1] 227). *12) Amid d. α-Cyanpentan-α-Carbonsäure. Sm. 125,5—126,5° (A. 325, 221 C. 1903 [1] 439). 13) Aethyläther d. 5-Oxy-3,4-Dimethylpyrazol. Sm. 93° (B. 37, 2832) C. 1904 [2] 642). 14) 5-Keto-3-Methyl-4-Propyl-4, 5-Dihydropyrazol. Sm. 212-2130 (Bl. [3] 31, 761 C. 1904 [2] 343). 13) Monoacetylhydrazon d. $\beta\gamma$ -Diketopentan. Sm. 130° (B. 36, 3185 $\mathbf{C}_{7}\mathbf{H}_{12}\mathbf{O}_{2}\mathbf{N}_{2}$ C. 1903 [2] 939). 14) γ -Methylacetylhydrazon- β -Ketobutan. Sm. 43° (B. 36, 3188 C. 1903 [2] 939). 0) Amid d. 5-Methylenhexahydro-1,3-Diazin-4,6-Dicarbonsäure. $C_7H_{12}O_2N_4$ Subl. bei 170°. Hg, Ag, HCl, HJ (G. 33 [1] 381 C. 1903 [2] 579). C 35,0 — H 5,0 — O 13,3 — N 46,7 — M. G. 240. $C_7H_{12}O_2N_8$ 1) 1-Ureïdo-4-[α-Semicarbazonäthy1]-5-Methyl-1, 2, 3-Triazol. Sm. 268°
 u. Zers. (A. 325, 162 C. 1908 [1] 645).

8) Verbindung (aus Zimmtsäureäthylester). Sm. 114-115° (B. 36, 4310

*4) Nitrosat d. 5-Methyl-1,2,3,4-Tetrahydrobenzol. Sm. 107-108°

5) Nitrosat d. 1-Methyl-?-Tetrahydrobenzol. Sm. 103-104° (C. 1903

 Amidd. Carboxylamidoacetylamidoacetylamidoessigsäure(Diglycylglycinamidcarbonsäure). Sm. 230-234° u. Zers. (B. 36, 2102 C. 1903

 $C^{3}6,2 - H 5,2 - O 34,5 - N 24,1 - M. G. 232.$

 $C_7H_{12}O_3N_2$

 $\mathbf{C_7H_{12}O_4N_2}$

C7H12O5N4

C. 1904 [1] 448).

[1] 329).

[1] 1304).

(A. 329, 370 C. 1904 [1] 516).

*5) 2-Oximido-1-Methylhexahydrobenzol. Sm. 43-44° (A. 329, 376 C. C7H18ON **1904** [1] 517). *6) d-3-Oximido-1-Methylhexahydrobenzol. Sm. 43-44° (A. 332, 338 C. 1904 [2] 653). *2) 2-Semicarbazon-1-Methyl-R-Pentamethylen. Sd. 174-176 (A. 331, C7H13ON8 322 C. 1904 [1] 1567). *8) Verbindung (aus Mesityloxyd). Sm. 129° (B. 36, 4379 C. 1904 [1] 454). C,H19OCl 9) 4-Chlor-3-Oxy-1-Methylhexahydrobenzol. Sd. $205-206_{758}^{0}$ (C. 1903) [2] 289; 1904 [1] 1346). 2) Methyläther d. 2-Jod-1-Oxyhexahydrobenzol. Sd. 114_{49}^{0} (C. r. 135, $C_7H_{13}OJ$ 1056 C. 1903 [1] 233). *28) Aethylester d. Tetrahydropyrrol-2-Carbonsäure. Sd. 85 $^{\circ}_{23}$ (A. 326, $C_7H_{13}O_2N$ 108 C. 1903 [1] 842). *29) γ -Oximido- δ -Ketoheptan. Sd. 107—108 $^{\circ}_{10}$ (Bl. [3] 31, 1165 C. 1904 [2] 1700). *31) 2-Hexahydropyridylessigsäure. Sm. 214°. HCl, (HCl, AuCl₃) (B. 36, 2905 C. 1903 [2] 889). 33) 2-Methyl-2-Acetonyltetrahydrooxazol. Sm. 73° (B. 36, 1282 C. 1903 [1] 1216). 34) Gem. Imid d. Propionsäure u. Buttersäure. Sm. 109° (C. r. 137, 326 C. 1903 [2] 712). 35) Gem. Imid d. Propionsäure u. Isobuttersäure. Sm. 140° (C. r. 137, 326 *O.* 1903 [2] 712). 4) Dipropionylguanidin. Sm. 85-86° (Ar. 241, 470 C. 1903 [2] 988). $C_7H_{13}O_2N_8$ $C_7H_{18}O_2Br$ *17) Aethylester d. α -Brom- β -Methylpropan- β -Carbonsäure. Sd. $89-90^{\circ}_{25}$ (Bl. [3] 31, 158 C. 1904 [1] 869). Aethylester d. β -Brombutan- β -Carbonsäure. Sd. 75°_{18} (Bl. [3] 31, 319 C. 1904 [1] 1133). C7H18O8N *2) δ -Oximido- β -Methylpentan- β -Carbonsäure. Sm. 93—94° (Soc. 85, 1220 C. 1904 [2] 1109). *10) Aethylester d. a-Oximidoisovaleriansäure. Sm. 56°; Sd. 129°₁₃ (Bl. [3] 31, 1071 C. 1904 [2] 1457). Sm. 163-164° u. Zers. 13) s-Oximido- β -Methylpentan-s-Carbonsäure. Na, Ag (Bl. [3] 31, 1074 C. 1904 [2] 1458). 14) Aethylester d. α-Oximidovaleriansäure. Sm. 48°; Sd. 144—145°₁₆ (Bl. [3] 31, 1072 C. 1904 [2] 1457). 8) δ -Semicarbazon- β -Methylbutan- δ -Carbonsäure. Sm. 205° (Bl. [3] $C_7H_{13}O_3N_3$ 31, 1152 C. 1904 [2] 1707). Propylaster d. α-Semicarbazon propions aure. Sm. 178° (Am. 28, 397 C. 1903 [1] 90). 10) Isobutylester d. Semicarbazonessigsäure. Sm. 214-215 (Bl. [3] 31, 681 C 1904 [2] 195). C,H,O,N *5) Diäthylester d. Amidomethancarbonsäure-N-Carbonsäure (Carbäthoxylglycinäthylester). Sm. 27-28°; Sd. 135°, (B. 36, 2107 C. 1903 8) Aethylester d. α-Nitrovaleriansäure. Sd. 130° (C. 1904 [2] 1601). C7H13O4N3 4) α-Amidopropionylamidoacetylamidoessigsäure. Sm. 214° u. Zers. (B. 36, 2987 C. 1903 [2] 1112). C7H14ON2 *9) β-Butyrylhydrazonpropan. Sm. 82° (J. pr. [2] 69, 487 C. 1904 [2] 599). 11) β -Isobutyrylhydrazonpropan. Sm. 90—91° (J. pr. [2] 69, 498 C. 1904 21 600). 12) Methylamid d. 1-Methyltetrahydropyrrol-2-Carbonsäure. Sm. 44 bis 46°. (2HCl, PtCl₄), (HCl, AuCl₃), Pikrat (A. 326, 118 C. 1903 [1] 843). *2) $\gamma \delta$ -Dioximidoheptan. Sm. 167—168° (Bl. [3] 31, 1175 C. 1904 [2] 1701). $C_7H_{14}O_2N_2$

O₂N₂ *2) γ δ-Dioximidoheptan. Sm. 167—168° (Bl. [3] 31, 1175 C. 1904 [2] 1701). *5) $\alpha\gamma$ -Di[Acetylamido] propan. Sm. 101° (B. 36, 336 C. 1903 [1] 703). 18) $\alpha\alpha$ -Di[Acetylamido] propan. Sm. 188° (M. 25, 939 C. 1904 [2] 1598). 19) Diäthylacetylamistoff. Sm. 207,5° (C. 1903 [1] 1155; A. 335, 365

Diäthylacetylharnstoff. Sm. 207,5° (C. 1903 [1] 1155; A. 335, 365
 C. 1904 [2] 382).
 3-Nitroso-4,4,6-Trimethyltetrahydro-1,3-Oxazin. Sd.129—131°₂₂₋₂₄

20) 3-Nitroso-4, 4, 6-Trimethyltetrahydro-1, 3-Oxazin. Sd.129—131°₂₂₋₂₄
 (M. 25, 830 C. 1904 [2] 1239).
 21) Ureïd d. Diäthylessigsäure (Diäthylacetylharnstoff). Sm. 207, 5° (D. R. P.

144431 C. 1903 [2] 813).

C7H14O2Cl 2) Aethylpropyläther d. $\beta\beta$ -Dichlor- $\alpha\alpha$ -Dioxyäthan. Sd. 202—2040 (G. 33 [2] 418 C. 1904 [1] 922). $C_7H_{14}O_4N_4$ Aethylester d. αα-Diureidopropionsäure. Zers. bei 200° (C. r. 138, 372 C. 1904 [1] 791). *9) Diäthylester d. Methylendi[Amidoameisensäure]. Sm. 131° (B. 36, 2206 C. 1903 [2] 423). $\mathbf{C_7H_{14}O_5N_2}$ C 40.8 - H 6.8 - O 38.8 - N 13.6 - M. G. 206.1) β -Hydroxylamid d. Diäthylhydroxylamin- $\beta\beta$ -Dicarbonsäure- β -Methylester. Sm. 124° (B. 37, 255 U. 1904 [1] 642).

*1) Glykoseureïd. Sm. 207° u. Zers. (R. 22, 38 U. 1903 [1] 1079).

5) 2-[\$\beta\$-Chlor\text{athyl}\text{hexahydropyridin.} Fl. HCl, (HCl, AuCl_s) (B. 37, C7H14O6N2 C,H, NCl 1886 C. 1904 [2] 238). 4) 2-[β-Bromäthyl]hexahydropyridin. Fl. HCl, (HCl, AuCl₃) (B. 37, C7H14NBr 1884 C. 1904 [2] 238). 3) $2 - [\beta$ -Jodäthyl] hexahydropyridin. HJ (B. 37, 1886 C. 1904 [2] 238). C7H14NJ C,H,ON *6) β -Methylamido- δ -Keto- β -Methylpentan. (2 HCl, PtCl₄) (M. 24, 776 C. 1904 [1] 158). *15) Amid d. Hexan-a-Carbonsäure. Sm. 94,5° (B. 36, 2550 C. 1903 [2] 654). 24) 4, 4, 6-Trimethyltetrahydro-1, 3-Oxazin. Sd. 149—152°. (2 HCl, PtCl₄), (HCl, AuCl₃), Pikrat (M. 25, 827 C. 1904 [2] 1239). 25) Amid d. $\beta\beta$ -Dimethylbutan- δ -Carbonsäure. Sm. 140—141° (C. r. 136, 554 C. 1903 [1] 825). 26) Diäthylamid d. Propionsäure. Sd. 1910 (B. 36, 2287 C. 1903 [2] 563). 27) Isoamylamid d. Essigsäure. Sd. 230—232° (Am. 29, 311 C. 1903) [1] 1166). 28) Dipropylamid d. Ameisensäure. Sd. 202—204° (B. 36, 2287 C. 1903 [2] 563; B. 36, 2476 C. 1903 [2] 559).
*3) \$\beta\$-Semicarbazonhexan. Sm. 127° (Bl. [3] 31, 1157 C. 1904 [2] 1707). C7H15ON3 *5) δ -Semicarbazon- β -Methylpentan. Sm. 132—133° u. Zers. (C. 1903 [1] 225). 6) γ-Semicarbazonmethylpentan. Sm. 93-94° (Bl. [3] 31, 306 C. 1904 [1] 1133). *16) Aethylester d. Isobutylamidoameisensäure. Sd. 95-96° (B. 36, $C_7H_{15}O_9N$ 2476 C. 1903 [2] 559). *34) Betain d. Methyldiäthylamidoessigsäure. HCl, Pikrat (B. 36, 4190 C. 1904 [1] 263). 42) β-Diäthylamidopropionsäure. Sm. 70—71° (J. pr. [2] 68, 350 C. 1903 43) Aethylester d. Diäthylamidoameisensäure. Sd. 167° (169—172°) (B. 36, 2287 C. 1903 [2] 563; B. 36, 2477 C. 1903 [2] 559; Bl. [3] 31, 690 C. 1904 [2] 198). 44) Acetat d. Diäthylamidooxymethan. Sd. 81-82014,5 (B. 37, 4088 C. 1904 [2] 1724). Diäthyläther d. γ-Brom-αα-Dioxypropan. Sd. 80-90°₂₀ (A. 335, 263 C. 1904 [2] 1283). $C_7H_{15}O_2Br$ C7H15O8N 7) ε -Oximido- $\alpha \gamma$ -Dioxy- $\beta \beta$ -Dimethylpentan. Fl. (M. 25, 1066 C. 1904) 3) Aethylester d. α-Semicarbazidoisobuttersäure. Sm. 97° (Am. 28, $C_7H_{15}O_8N_8$ 402 C. 1903 [1] 90). 4) Propylester d. α -Semicarbazidopropionsäure. Sm. 89° (Am. 28, 397 *C.* **1903** [1] 90). C 38,0 — H 6,8 — O 36,2 — N 19,0 — M. G. 221. C7H15O5N8 1) Semicarbazon d. Rhamnose $+\frac{1}{2}H_2O$. Sm. 183° (Bl. [3] 31, 1077 C. 1904 [2] 1492; C. 1904 [2] 1494). *1) Semicarbazon d. d-Glykose $+ 2 H_2O$. Sm. 197—198° u. Zers. (Bl. $C_7H_{15}O_6N_3$ [3] **31**, 1077 *C*. **1904** [2] 1492). 2) Semicarbazon d. d-Galaktose. Sm. 200-202° (Zers. bei 186-189°) (Bl. [3] 31, 1078 C. 1904 [2] 1493; C. 1904 [2] 1494).

3) Semicarbazon d. d-Mannose + ½, H₂O. Sm. 117° (wasserfrei) (Bl. [3] 31, 1077 C. 1904 [2] 1493; C. 1904 [2] 1493). 4) Verbindung (aus Guanidin). + C₂H₆O (Ü. 1904 [2] 1210).

*2) α-2-Amido-d-Glykoheptonsäure (Galaheptosaminsäure) (B. 36, 620 C.

 $C_7H_{15}O_7N$

1903 [1] 766).

3) β-2-Amido-d-Glykoheptonsäure. Cu (B. 36, 619 C. 1903 [1] 766).

4) Amidoglykoheptonsäure. Brucinsalz (B. 35, 4018 C. 1903 [1] 391).

Sm. 186° (B.

 $C_7H_{15}O_7N$

*1) Nitril d. Methyldiäthylchlorammoniumessigsäure. C,H,N,Cl 37, 4089 C. 1904 [2] 1724). *2) Nitril d. Methyldiäthyljodammoniumessigsäure. Sm. 190-191° C₇H₁₅N₂J (186°) (B. 36, 4189 C. 1904 [1] 262; B. 37, 4089 C. 1904 [2] 1724). *1) Jodmethylat d. Hexamethylentetramin. Sm. 204° (A. 334, 231 C. C,H,NJ 1904 [2] 900). *16) Nitril d. N Methyldiäthylammoniumhydroxydessigsäure. $C_7H_{16}ON_2$ Pikrat (B. 36, 4189 C. 1904 [1] 262). 17) α-Aethyl-β-[d-sec. Butyl]harnstoff. Sm. 92° (Ar. 242, 70 C. 1904 [1] 999). 18) δ -Oximido- β -Methylamido- β -Methylpentan. Sm. 57—59°. Oxalat (M. 24, 777 C. 1904 [1] 158). C 48,8 — H 9,3 — O 9,3 — N 32,6 — M. G. 172.

1) Methylhydroxyd d. Hexamethylentetramin. S 1843; A. 334, 231 G. 1904 [2] 900). — I, 1168. C7H16ON4 Salze siehe (B. 19, 2) Aethylester d. $\gamma\delta$ -Diamidovaleriansäure. (2HCl, PtCl₄) (C. 1904 $C_7H_{16}O_2N_2$ C7H16O3S *1) Heptan-α-Sulfonsäure. Ba (C. 1903 [1] 961). 1) Aethylisoamylester d. Schwefelsäure. Sd. 127-128 (Am. 30, 219) $C_7H_{18}O_4S$ C. 1903 [2] 937). 3) isom. βγδεζ-Pentaoxyhexylharnstoff (Mannaminharnstoff). Sm. 97—98° $C_7H_{16}O_6N_2$ (C. r. 138, 505 C. 1904 [1] 872). 2) Diäthylester d. Propan-ay-Disulfonsäure. Fl. (B. 37, 3808 C. 1904 C, H, O, S, [2] 1564). $C_7H_{16}N_2S$ 9) α -Aethyl- β -[d-sec. Butyl]thioharnstoff. Sm. 67° (Ar. 242, 59 C. 1904 [1] 998). 10) αα-Dimethyl-β-[d-sec. Butyl]thioharnstoff. Sm. 54° (Ar. 242, 59 C. 1904 [1] 998). 17) β -Methylamido- δ -Oxy- β -Methylpentan. Sd. 184—186 $^{\circ}_{750}$. (2 HCl, $C_7H_{17}ON$ PtCl,) (M. 25, 137 C. 1904 [1] 866). 18) α -Dimethylamido- β -Oxy- β -Methylbutan. Sd. 57 $^{\circ}_{23}$ (C. r. 138, 767) C. 1904 [1] 1196). C 52,8 — H 10,7 — O 10,1 — N 26,4 — M. G. 159. C,H,ON 1) α-Oximido-α-Amido-α-Dipropylamidomethan. Sm. 115°. Pikrat (B. 36, 3661 C. 1903 [2] 1325). *3) Diäthylester d. α-Oxyisopropylphosphinsäure. Sm. 14-15°; Sd. $C_7H_{17}O_4P$ 145_{20}^{0} u. Zers. (C. 1904 [2] 1708). *1) Methyldipropylsulfinchlorid. $+ 2^{1}/_{2} \operatorname{HgCl}_{2}$ (J. pr. [2] 66, 460 C. $C_7H_{17}ClS$ 1903 [1] 561). *2) Methyldiisopropylsulfinchlorid. + HgCl, (J. pr. [2] 66, 461 C. 1903 [1] 561). *3) Methyläthylisobutylsulfinchlorid (J. pr. [2] 66, 457 C. 1903 [1] 561). *4) Methyläthylbutylsulfinchlorid. + 6 HgCl2 (J. pr. [2] 66, 457 U. 1903 [1] 561). *5) Methyláthyl-sec. Butylsulfinchlorid. +2(6) HgCl₂ (J. pr. [2] 66, 458 *C.* 1903 [1] 561). 6) Methylpropylisopropylsulfinchlorid. + 6HgCl₂ (J. pr. [2] 66, 461 C. 1903 [1] 561). 1) Jodmethylat d. 1,3,5-Trimethylhexahydro-1,3,5-Triazin (A. 334, $C_7H_{18}N_8J$ 227 C. 1904 [2] 899). _ 7 IV _ 1) Chlorid d. 2, 4, 6-Trichlor-3-Nitrobenzol-1-Carbonsäure. Sm. 960 C, HO, NCl (R. 21, 388 C. 1903 [1] 152). *1) 2,4,5-Trichlor-?-Nitrobenzol-1-Carbonsäure (R. 21, 380 C. 1903 C, H, O, NCl,

3) 2,4,6-Trichlor-3-Nitrobenzol-1-Carbonsäure. Sm. 169,250 (R. 21,

1) 2,4,6-Trinitro-l-Rhodanbenzol. Zers. bei 285° (Soc. 85, 649

[1] 152).

 $C_7H_2O_6N_4S$

387 C. 1903 [1] 152).

C. 1904 [2] 310).

$\mathbf{C_7H_2O_7N_3Cl}$	*1) Chlorid d. 2,4,6-Trinitrobenzol-1-Carbonsäure. Sm. 163 ° (R. 21, 381 C. 1903 [1] 152).
$C_7H_8ONCl_2$	3) Nitrii d. 3,5-Dichlor-2-Oxybenzol-1-Carbonsäure. Sm. 139° (B. 37, 4030 C. 1904 [2] 1718).
$\mathrm{C_7H_3OCl_2Br}$	1) Chlorid d. 2-Chlor-3-Brombenzol-1-Carbonsäure. Sm. 41—42°; Sd. 150—152° ₂₆ (Soc. 85, 1263 C. 1904 [2] 1302).
	2) Chlorid d. 2-Chlor-4-Brombenzol-1-Carbonsäure. Sm. 35—36°; Sd. 152—153° ₂₂ (Soc. 85, 1263 C. 1904 [2] 1302).
	3) Chlorid d. 2-Chlor-5-Brombenzol-1-Carbonsäure. Sd. 147° ₁₉ (Soc. 85, 1263 C. 1904 [2] 1302).
	4) Chlorid d. 2-Chlor-4-Brombenzol-1-Carbonsäure. Sm. 30°; Sd. 145-147° ₂₄ (Soc. 85, 1263 C. 1904 [2] 1302).
	5) Chlorid d. 3-Chlor-2-Brombenzol-1-Carbonsäure. Sm. 40—41°; Sd. 144—146° ₂₂ (Soc. 85, 1263 C. 1904 [2] 1302).
	 6) Chlorid d. 8-Chlor-4-Brombenzol-1-Carbonsäure. Sm. 58-59°; (Soc. 85, 1263 C. 1904 [2] 1302).
	7) Chlorid d. 3-Chlor-5-Brombenzol-1-Carbonsäure. Sm. 33—34°; (Soc. 85, 1263 C. 1904 [2] 1302).
	8) Chlorid d. 3-Chlor-6-Brombenzol-1-Carbonsäure. Sm. 34—35°; Sd. 146—147° ₂₈ (Soc. 85, 1263 C. 1904 [2] 1302).
	9) Chlorid d. 4-Chlor-2-Brombenzol-1-Carbonsäure. Sm. 32—33°; Sd. 155—156° ₉₉ (Soc. 85, 1263 C. 1904 [2] 1302).
	10) Chlorid d. 4-Chlor-3-Brombenzol-1-Carbonsäure. Sm. 37—38°; (Soc. 85, 1263 C. 1904 [2] 1302).
$C_7H_3O_2NCl_2$	*4) Chlorid d. Pyridin-2, 6-Dicarbonsäure. Sm. 61° (M. 24, 206 C. 1903 [2] 48).
$C_7H_8O_2NCl_4$	4) 3, 4, 5, 6 Tetrachlor - 2 - Nitro - 1 - Methylbenzol. Sm. 86—88° (Soc. 85, 1280 C. 1904 [2] 1293).
	5) 2, 4, 5, 6-Tetrachlor-3-Nitro-1-Methylbenzol. Sm. 131—134° (Soc. 85, 1280 C. 1904 [2] 1293).
	6) 2, 3, 5, 6-Tetrachlor-4-Nitro-1-Methylbenzol. Sm. 150—152° (Soc. 85, 1282 C. 1904 [2] 1293).
	7) 3,4,5-Trichlor-2-Nitro-1-Chlormethylbenzol? Sm. 159° (Soc. 85, 1285 C. 1904 [2] 1293).
C ₇ H ₃ O ₃ NCl ₄	1) 2, 3, 5, 6-Tetrachlor-1-Nitro-4-Keto-1-Methyl-1, 4-Dihydro- benzol. Sm. 90° u. Zers. (A. 328, 293 C. 1903 [2] 1248).
C ₇ H ₈ O ₈ N ₂ Cl ₈	1) Amid d. 2, 4, 6-Trichlor-3-Nitrobenzol-1-Carbonsäure. Sm. 228,5° (R. 21, 389 C. 1908 [1] 152).
$C_7H_3O_5N_2C1$	*3) Chlorid d. 3,5-Dinitrobenzol-1-Carbonsäure. Sm. 74° (J. pr. [2] 69, 455 C. 1904 [2] 594).
C ₇ H ₃ O ₆ N ₃ Cl ₂	1) 3, 5-Dichlor-2, 4, 6-Trinitro-1-Methylbenzol. Sm. 200—201° (Am. 32, 178 U. 1904 [2] 951).
$\mathrm{C_7H_8O_6N_8Br_2}$	*1) 3, 5-Dibrom-2, 4, 6-Trinitro-1-Methylbenzol. Sm. 229—230° (R. 23, 127 C. 1904 [2] 200).
$C_7H_8O_7N_2Br$	1) 2-Brom-4, 6-Dinitro-3-Oxybenzol-1-Carbonsäure? Sm. 217—2186 (Soc. 81, 1484 C. 1903 [1] 23, 144).
C7H8NClBr	 Nitril d. 2-Chlor-4-Brombenzol-1-Carbonsäure. Sm. 51—61° (Am. 30, 516 C. 1904 [1] 371). Nitril d. 5-Chlor-2-Oxybenzol-1-Carbonsäure. Sm. 165—167°
C7H4ONCl	 5) Nitril d. 5-Chlor-2-Oxybenzol-1-Carbonsäure. Sm. 165—167°. (B. 37, 4026 C. 1904 [2] 1718). 6) Nitril d. 3-Chlor-4-Oxybenzol-1-Carbonsäure. Sm. 155° (B. 37,
C,H4ONCl3	4034 C. 1904 [2] 1719). *2) Amid d. 2,4,6-Trichlorbenzol-1-Carbonsäure. Sm. 181° (R. 21,
$\mathbf{C}_{7}\mathbf{H}_{4}\mathbf{OClJ}$	386 C. 1903 [1] 152). *1) Chlorid d. 2-Jodbenzol-1-Carbonsäure. Sm. 30—31°; Sd. 159° ₂₇
	(Soc. 85, 1272 U. 1904 [2] 1303). *2) Chlorid d. 4-Jodbenzol-1-Carbonsäure. Sm. 71—72°; Sd. 163 bis
	164% (Soc. 85, 1274 C. 1904 [2] 1303). 3) Chlorid d. 3-Jodbenzol-1-Carbonsäure. Sd. 159—160% (Soc. 85, 1272 C. 1904 [2] 1303).
C_7 H_4O_2 $NC1$	1273 C. 1904 [2] 1303). 2) 4-Chlor-1-Keto-1, 2-Dihydrobenzoxazol. Sm. 184—185° (Am. 32, 26 C. 1904 [2] 696).
$\mathbf{C_7H_4O_2NCl_3}$	12) 2, 3, 5 - Trichlorpyridin - 4 - Methylcarbonsäure. Sm. 144—145°. Ca, Ba, Ag (Soc. 83, 399 C. 1903 [1] 841, 1141).

$\mathrm{C_7H_4O_2NBr_3}$	*6) 2, 4, 6-Tribrom-3-Amidobenzol-1-Carbonsäure. Salze siehe (Soc. 85, 239 C. 1904 [1] 1006).
	9) ?-Tribrom-3-Amidobenzol-1-Carbonsäure. Sm. 154-156° (C. 1904 [2] 104).
$C_7H_4O_2ClBr$	*3) 2-Chlor-4-Brombenzol-1-Carbonsäure. Sm. 166—167° (Soc. 85, 1266 C. 1904 2! 1302).
	*4) 2-Chlor-6-Brombenzol-1-Carbonsäure. Sm. 143—144° (Soc. 85, 1268 C. 1904 [2] 1302).
	*5) 3-Chlor-4-Brombenzol-1-Carbonsäure. Sm. 218° (Soc. 85, 1269 C. 1904 [2] 1302).
	*6) 4-Chlor-2-Brombenzol-1-Carbonsäure. Sm. 154—155° (Soc. 85, 1267 C. 1904 [2] 1302).
	7) 2-Chlor-3-Brombenzol-1-Carbonsäure. Sm. 165° (Sec. 85, 1266 C. 1904 [2] 1302).
	8) 2-Chlor-5-Brombenzol-1-Carbonsäure. Sm. 155—156° (Soc. 85, 1267 C. 1904 [2] 1302).
	9) 3-Chlor-2-Brombenzol-1-Carbonsäure. Sm. 143—144° (Soc. 85, 1266 C. 1904 [2] 1302).
	10) 3-Chlor-5-Brombenzol-I-Carbonsäure. Sm. 189—190° (Soc. 85, 1269 C. 1904 [2] 1302).
	11) 3-Chlor-6-Brombenzol-1-Carbonsäure. Sm. 148—149° (Soc. 85, 1267 C. 1904 [2] 1302).
	12) 4-Chlor-3-Brombenzol-1-Carbonsäure. Sm. 214° (Soc. 85, 1269 C. 1904 [2] 1302).
$C_7H_4O_8NC1$	*3) Aldehyd d. 6-Chlor-3-Nitrobenzol-1-Carbonsäure. Sm. 80° (D.R.P. 102745; M. 25, 366 C. 1904 [2] 322).
	9) 4-Chlor-2-Nitrosobenzol-1-Carbonsäure (B. 36, 3302 C. 1903
	10) Aldehyd d. 4-Chlor-2-Nitrobenzol-1-Carbonsäure. Sm. 67—68° (D.R.P. 128727 C. 1902 [1] 552; B. 36, 3300 C. 1903 [2] 1173;
C ET O NCI	D.R.P. 149748, 149749 C. 1904 [1] 909). — *III, 11. 3) 2,3,5-Trichlor-1-Nitro-4-Keto-1-Methyl-1,4-Dihydrobenzol.
$C_7H_4O_8NCl_8$	Sm. 70° u. Zers. (A. 328, 291 C. 1903 [2] 1248).
$C_7H_4O_8NBr$	3) 4-Brom-2-Nitrosobenzol-1-Carbonsäure. Sm. 222—225° (B. 37, 1872 C. 1904 [1] 1601).
	4) Aldehyd d. 4-Brom-2-Nitrobenzol-1-Carbonsäure. Sm. 97—98° (B. 36, 3302 C. 1903 [2] 1173; D.R.P. 149748, 149749 C. 1904 [1]
$C_7H_4O_8NBr_8$	909; B. 37, 1867 C. 1904 [1] 1601). 4) Methyläther d. 4,5,6-Tribrom-2-Nitro-1-Oxybenzol. Sm. 109
$C_7H_4O_8NJ$	bis 110° (Am. 30, 68 C. 1903 [2] 355). 1) Aldehyd d. 4-Jod-2-Nitrobenzol-1-Carbonsäure. Sm. 110—111°
$C_7H_4O_8NJ_3$	(B. 36, 3303 C. 1903 [2] 1173; D.R.P. 149749 C. 1904 [1] 909). 1) Methyläther d. 2,4,6-Trijod-3-Nitro-1-Oxybenzol. Sm. 128°
C_7 H_4O_3 Cl_2 S	(Am. 32, 302 C. 1904 [2] 1385). *1) stab. Chlorid d. Benzol-1-Carbonsäure-2-Sulfonsäure. Sm. 79°
	(Am. 30, 247 C. 1903 [2] 1118). *2) lab. Chlorid d. Benzol-1-Carbonsäure-2-Sulfonsäure. Sm. 40°
C,H,O,NCl	(Am. 30, 247 C. 1903 [2] 1118). *1) 3-Chlor-2-Nitrobenzol-1-Carbonsäure (C. 1903 [2] 1174).
, , ,	*3) 5-Chlor-2-Nitrobenzol-1-Carbonsäure (C. 1903 [2] 1174). *5) 4-Chlor-3-Nitrobenzol-1-Carbonsäure (C. 1903 [2] 1174).
	*7) 6-Chlor-3-Nitrobenzol-1-Carbonsäure (C. 1903 [2] 1174).
	*13) 2-Chlor-3-Nitrobenzol-1-Carbonsäure (C. 1903 [2] 1174). 14) P-Chlor-3-Nitro-2-Methyl-1,4-Benzochinon. Sm. 70—71° (Soc.
	85, 528 C. 1904 [1] 1256, 1490).
	15) 3-Chlor-5-Nitro-2-Methyl-1, 4-Benzochinon (oder 5-Chlor-3-Nitro-
$C_7H_4O_4NBr$	2-Methyl-1, 4-Benzochinon). Sm. 128° (A. 328, 314 C. 1903 [2] 1246). *3) 5-Brom-2-Nitrobenzol-1-Carbonsäure (C. 1903 [2] 1174).
J7224 V42122	13) Aldehyd d. 5-Brom-3-Nitro-2-Oxybenzol-1-Carbonsäure. Sm.
$\mathrm{C_7H_4O_4N_2Br_2}$	147—148° (B. 37, 3935 C. 1904 [2] 1596). 7) 3,5-Dibrom-2,4-Dinitro-l-Methylbenzol. Sm. 157° (R. 21, 126 C. 1904 [2] 200).
$\mathrm{C_7H_4O_5NBr}$	*2) 3-Brom-5-Nitro-2-Oxybenzol-1-Carbonsäure. Sm. 222° (G. 34 [1] 274 C. 1904 [1] 1499).

$\mathbf{C_7H_4O_6N_8Cl}$	 3-Chlor-2,4,6-Trinitro-1-Methylbenzol. Sm. 148,5° (B. 37, 2094 C. 1904 [2] 34).
$\mathbf{C_7H_4O_6N_4Cl_2}$	1) 4,5-Dichlor-2,6-Dinitro-1-Methylnitramidobenzol. Sm. 121° (R. 21, 420 C. 1903 [1] 504).
$\mathbf{C_7H_4O_6N_4Br_2}$	(R. 21, 415 C. 1903 [1] 505).
$C_7H_4O_7N_8C1$	(R. 21, 323 C. 1903 [1] 79).
$\mathbf{C_7H_4O_7N_8Br}$	(R. 23, 121 C. 1904 [2] 206).
$\mathbf{C_7H_4O_9N_2S}$	(17. 33, 121 o. 1004 [12] 200.0 (17. 33, 5-Dinitrobenzol-1-Carbonsäure-2-Sulfonsäure. Sm. oberh. 300° (17. 33 [2] 334 0. 1904 [1] 278).
$\mathbf{C_7H_5O_2NCl_2}$	17) 3,5-Dichlor-2-Oxybenzaldoxim. Sm. 195—196° (B. 37, 4029 C. 1904 [2] 1718).
$\mathbf{C_7H_5O_2NBr_2}$	*16) 4,5-Dibrom-2-Amidobenzol-l-Carbonsäure. Sm. 227° (<i>J. pr.</i> [2] 69, 36 <i>O.</i> 1904 [1] 641).
	*17) 3,5-Dibrom-2-Amidobenzol-l-Carbonsäure. Ba $+ 3\frac{1}{2}$ H ₂ O (<i>C.</i> 1903 [2] 1194).
$\mathbf{C_7H_5O_2N_2Cl}$	*2) Diazobenzolchlorid-4-Carbonsäure (A. 325, 302 C. 1903 [1] 704). 3) Diazobenzolchlorid-3-Carbonsäure (A. 325, 302 C. 1903 [1] 704).
$\mathbf{C_7H_5O_2N_2Br_3}$	3) 4,5,6-Tribrom-2-Nitro-1-Methylamidobenzol. Sm. 128° (R. 21, 415 C. 1903 [1] 505).
$\mathbf{C_7H_5O_2N_8Br_2}$	1) Amid d. 3,5-Dibrom-4-Oxyphenylazoameisensäure. Zers. bei 225° (A. 334, 174 C. 1904 [2] 834).
$\mathbf{C_7H_5O_2N_4Cl_3}$	1) 2,6-Diketo-8-Trichlormethyl-3-Methylpurin. Zers. oberh. 300° (D.R.P. 153121 C. 1904 [2] 625).
$\mathbf{C}_{7}\mathbf{H}_{5}\mathbf{O_{8}NCl_{2}}$	3) Methyläther d. 4,5-Dichlor-2-Nitro-1-Oxybenzol. Sm. 86° (R. 21, 421 C. 1903 [1] 504).
	4) 3,5-Dichlor-1-Nitro-4-Keto-1-Methyl-1,4-Dihydrobenzol. Sm. 74—76° u. Zers. (A. 328, 289 C. 1903 [2] 1248).
$\mathbf{C_7H_5O_8NBr_2}$	*7) Methyläther d. 2,6-Dibrom-4-Nitro-1-Oxybenzol. Sm. 122,6° (Am. 30, 59 C. 1903 [2] 354).
$C_7H_5O_8NS$	*1) 2-Cyanbenzol-1-Sulfonsäure. NH ₄ , K (Am. 30, 263 C. 1903 [2] 1119; Am. 30, 371 C. 1904 [1] 277).
	6) Phenylsulfonisocyansäure. Sd. 129%. HJ (B. 36, 3214 C. 1903 [2] 1055; B. 37, 690 C. 1904 [1] 1074).
$\mathbf{C}_{7}\mathbf{H}_{5}\mathbf{O}_{8}\mathbf{N}_{2}\mathbf{C}1$	*2) 6-Chlor-3-Nitrobenzaldoxim. Sm. 146—147° (M. 25, 367 C. 1904 [2] 322).
	*12) Amid d. 4-Chlor-3-Nitrobenzol-1-Carbonsäure (C. 1903 [2] 1174).
	*13) Amid d. 6-Chlor-3-Nitrobenzol-1-Carbonsäure (C. 1903 [2] 1174). 14) 4-Chlor-2-Nitrobenzaldoxim. Sm. 172° (B. 37, 1865 C. 1904
	[1] 1600).
	15) Chloramid d. 3-Nitrobenzol-1-Carbonsäure. Sm. 183-184° u. Zers. (Am. 30, 402 C. 1904 [1] 238).
$\mathbf{C_7H_5O_3N_2Br}$	9) 4-Brom-2-Nitrobenzaldoxim. Sm. 164° (B. 37, 1868 C. 1904 [1] 1601).
$C_7H_5O_8ClHg$	1) Chlormerkurosalicylsäure. Na, K, Li, Ca (G. 32 [2] 308 C. 1903 [1] 579).
$C_7H_5O_8C1_8S$	4) 2,4,5-Trichlorphenylmethan-α-Sulfonsäure (D.R.P. 146946 C. 1904 [1] 66).
$C_7H_5O_8BrHg$	1) Brommerkurosalicylsäure (G. 32 [2] 310 C. 1903 [1] 579).
$C_7H_5O_8JHg$	1) Jodmerkurosalicylsäure (G. 32 [2] 310 C. 1903 [1] 579).
C ₇ H ₅ O ₄ N ₂ Cl	*5) 2,4-Dinitro-1-Chlormethylbenzol. Sm. 33-34° (B. 37, 3599 C. 1904 [2] 1500).
$C_7H_5O_4ClS$	*2) 3-Chlorid d. Benzol-1-Carbonsäure-8-Sulfonsäure. Sm. 133—134° (M. 23, 1117 O. 1903 [1] 396).
	3) Aldehyd d. 4-Chlorbenzol-1-Carbonsäure-2-Sulfonsäure (D. R. P. 117540 C. 1901 [1] 430). — *III, 16.
	4) Aldehyd d. 5-Chlorbenzol-l-Carbonsäure-2-Sulfonsäure (D. R.P. 91818). — *III, 16.
C ₇ H ₅ O ₅ N ₂ Cl	3) Methyläther d. 5-Chlor-2,4-Dinitro-1-Oxybenzol. Sm. 105° (R. 23, 122 C. 1904 [2] 206).
$\mathrm{C_7H_5O_5N_2Br}$	5) Methyläther d. 5-Brom-2,4-Dinitro-1-Oxybenzol. Sm. 110° (R. 23, 120 C. 1904 [2] 206).

$\mathrm{C_7H_5O_6NS}$	 Aldehyd d. 3-Nitrobenzol-1-Carbonsäure-6-Sulfonsäure (D. R. P. 94504, 102745). — *III, 16.
$C_7H_5O_7NS$	*1) 2-Nitrobenzol-1-Carbonsäure-4-Sulfonsäure (M. 23, 1138 C.
$C_7H_5N_2BrS$	1903 [1] 397). *2) P-Brown-1-Amidobenzthiazol. Sm. 209—211° (B. 36, 3135 C. 1903)
C_7H_6ONC1	[2] 1071). *6) Amid d. 2-Chlorbenzol-I-Carbonsäure (C. 1903 [2] 1173). *7) Amid d. 3-Chlorbenzol-I-Carbonsäure. Sm. 134 ⁶ (J. pr. [2] 67,
	498 C. 1903 [2] 251). *11) Phenylchloramid d. Essigsäure. Sm. 44° (Am. 29, 304 C. 1903 [1] 1166).
	*12) 4-Chlorphenylamid d. Ameisensäure. Sm. 101° (Am. 29, 304 C. 1903 [1] 1166).
	14) Aldehyd d. 4-Chlor-2-Amidobenzol-1-Carbonsäure. Sm. 86° (B 37, 1873 C. 1904 [1] 1601).
	 15) Aldehyd d. 2-Chlor-4-Amidobenzol-1-Carbonsäure. Sm. 147° (D.R.P. 86874). — *III, 13.
$\mathrm{C_7H_6ONBr}$	*10) Phenylbromamid d. Ameisensäure. Sm. 79-80° (Am. 29, 304 C. 1903 [1] 1166).
$\mathrm{C_7H_6ON_2Br_2}$	5) 2,6-Dibrom-4-Methyl-1-Diazobenzol. Sulfat (Soc. 83, 811 (J. 1903 [2] 426).
$C_7H_6O_2NC1$	*2) 6-Chlor-2-Nitro-1-Methylbenzol. Sm. 37,5° (B. 37, 1018 C. 1904 [1] 1202).
	*7) 2-Chlor-4-Nitro-1-Methylbenzol. Sm. 65° (Soc. 85, 1436 C. 1904 [2] 1740).
	*10) 4-Nitro-I-Chlormethylbenzol. + AlCl ₃ (C. 1903 [1] 147; R. 23, 103 C. 1904 [1] 1136).
	*17) 5-Chlor-2-Oxybenzaldoxim. Sm. 122° (B. 37, 4025 C. 1904 [2] 1717).
	*23) 6-Chlor-3-Amidobenzol-1-Carbonsäure (C. 1903 2] 1174). *29) Amid d. 5-Chlor-2-Oxybenzol-1-Carbonsäure. Sm. 226—227. (B. 37, 4026 C. 1904 [2] 1718).
	35) 6-Chlor-2-Imido-4-Oxy-1-Keto-5-Methyl-1, 2-Dihydrobenzol? (A. 328, 318 C. 1903 [2] 1247).
	36) 3-Chlor-4-Oxybenzaldoxim. Sm. 144—145° (B. 37, 4034 C. 1904 [2] 1719).
	37) Amid d. 3-Chlor-4-Oxybenzol-1-Carbonsäure. Sm. 181—182° (B. 37, 4035 (f. 1904 [2] 1719).
$C_7H_6O_2NBr$	24) 6-Brom-2-Nitro-1-Methylbenzol. Sm. 41° (B. 37, 1021 C. 1904 [1] 1203).
$\mathbf{C_7H_6O_2NJ}$	12) 6-Jod-2-Nitro-1-Methylbenzol. Sm. 35,5° (B. 37, 1024 C. 1904 [1] 1203).
$C_7H_0O_2N_2Cl_2$	1) 4,5-Dichlor-2-Nitro-1-Methylamidobenzol. Sm. 148° (R. 21, 420 C. 1903 [1] 504).
$C_7H_6O_2N_2Br_2$	 4,5-Dibrom-2-Nitro-1-Methylamidobenzol. Sm. 165° (R. 21, 414 1903 [1] 505).
$C_7H_6O_8NC1$	*1) Methyläther d. 4-Chlor-2-Nitro-1-Oxybenzol. Sm. 98* (94-96*) (D.R.P. 137956 C. 1903 [1] 112; D.R.P. 140133 (1. 1903 [1] 797;
	B. 36, 1689 C. 1903 [2] 111). *2) Methyläther d. 5-Chlor-2-Nitro-1-Oxybenzol. Sm. 71° (R. 21,
	321 C. 1903 [1] 79). 14) 6-Chlor-3-Nitro-2-Oxy-Methylbenzol. Sm. 64,5° (B. 37, 1020
	C. 1904 [1] 1202). 15) 6-Chlor-5-Nitro-2-Oxy-1-Methylbenzol. Sm. 135° (B. 37, 1020
	C. 1904 [1] 1202). 16) 5-Chlor-3-Nitro-4-Oxy-1-Methylbenzol. Sm. 65°. Na (A. 328,
	311 C. 1903 [2] 1246). 17) Methylester d. 5-Chlor-6-Oxypyridin-3-Carbonsäure. Sm. 218°. Na (B. 37, 3832 C. 1904 [2] 1614).
$C_{7}\mathbf{H}_{6}O_{8}\mathbf{NBr}$	*7) Methylester d. 5-Brom-6-Oxypyridin-3-Carbonsäure. Sm. 221
	bis 222° (B. 37, 3839 C. 1904 [2] 1615). 10) 6-Brom-3-Nitro-2-Oxy-1-Methylbenzol. Sm. 64° (B. 37, 1023 C. 1904 [1] 1203).

$\mathbf{C_7H_6O_3NBr}$	11) 6-Brom-5-Nitro-2-Oxy-l-Methylbenzol. Sm. 145,5° (B. 37, 1023 C. 1904 [1] 1203).
•	12) Methyläther d. 5-Brom-2-Nitro-1-Oxybenzol. Sm. 90° (R. 23, 119 C. 1904 [2] 206).
$\mathbf{C_7H_6O_3Cl_2S}$	10) 2,4-Dichlorphenylmethan-α-Sulfonsäure. Na (D.R.P. 146946 C. 1904 [1] 66).
	11) 2,5-Dichlorphenylmethan- α -Sulfonsäure. Na $+$ H ₂ O (D.R.P. 146 946 C . 1904 [1] 66).
	 12) 3,4-Dichlorphenylmethan-α-Sulfonsäure. Na (D.R.P. 146946 C. 1904 [1] 66).
$\mathrm{C_7H_6O_4NCl}$	2) 4[oder 6]-Chlor-6[oder 4]-Nitro-2,5-Dioxy-1-Methylbenzol. Sm. 179-180 (A. 328, 316 C. 1903 [2] 1247).
$\mathbf{C_7H_6O_4Cl_2S_2}$	*1) Chlorid d. 1-Methylbenzol-2, 4-Disulfonsäure. Sm. 52° (J. pr. [2] 68, 331 O. 1903 [2] 1171).
$C_7H_6O_4Br_2S_2$	1) Bromid d. 1-Methylbenzol-2,4-Disulfonsäure. Sm. 78° (J. pr. [2] 68, 334 C. 1903 [2] 1172).
$\mathrm{C_7H_6O_8N_2S}$	2) 2,6-Dinitro-1-Oxybenzolmethyläther-4-Sulfonsäure (D. R. P. 148085 C. 1904 [1] 135).
$C_7H_7ONBr_2$	*5) Methyläther d. 2,6-Dibrom-4-Amido-1-Oxybenzol. Sm. 66° (64-65°) (Soc. 81, 1479 C. 1903 [1] 23, 144; Am. 30, 62 C. 1903 [2] 354).
$\mathrm{C_7H_7ON_2Cl}$	10) Methyläther d. 2-Oxydiazobenzolchlorid (A. 325, 302 C. 1903 [1] 704).
	11) Hydrazid d. 4-Chlorbenzol-1-Carbonsäure. Sm. 163° (C. 1904) [2] 1493).
$\mathbf{C_7H_7ON_2Br}$	*4) Methyläther d. 4-Bromdiazobenzol (A. 325, 245 C. 1903 [I] 632). *8) Hydrazid d. 4-Brombenzol-1-Carbonsäure. Sm. 164° (C. 1904
$\mathbf{C_7H_7ON_2Br_3}$	 [2] 1493). Methylamid d. 3,4,5-Tribrom-l-Methylpyrrol-2-Carbonsäure. Sm. 176° (B. 37, 2802 C. 1904 [2] 533).
$\mathbf{C_7H_7ON_2J}$	1) 2-Jodphenylharnstoff. Sm. 197—198° (M. 25, 956 C. 1904 [2] 1638).
	2) 3-Jodphenylharnstoff. Sm. 174° (M. 25, 957 C. 1904 [2] 1638). 3) 4-Jodphenylharnstoff. Sm. 288—300° (M. 25, 945 C. 1904 [2] 1637).
$C_7H_7OJF_2$	*1) I-Methylbenzol-2-Jodofluorid. Sm. 120° (A. 328, 135 C. 1903 [2] 990).
	*2) 1-Methylbenzol-4-Jodofluorid. Zers. bei 207° (A. 328, 136 C. 1903 [2] 990).
	3) 1-Methylbenzol-3-Jodofluorid. Sm. 178° (A. 328, 136 C. 1903 [2] 990).
$\mathbf{C_7H_7O_2NBr_2}$	2) 4,6-Dibrom-2-Amido-3,5-Dioxy-1-Methylbenzol. HCl (B. 37, 1426 C. 1904 [1] 1418).
$egin{array}{l} \mathbf{C_7H_7O_2N_2Br} \ \mathbf{C_7H_7O_2N_4Cl} \end{array}$	*9) 4-Brom-1-Methylnitramidobenzol (B. 36, 2507 C. 1903 [2] 490). 7) 8-Chlor-2, 6-Diketo-1, 3-Dimethylpurin (D.R.P. 145880 C. 1903
$C_7H_7O_2ClS$	[2] 1036). *2) Chlorid d. 1-Methylbenzol-2-Sulfonsäure (D.R.P. 142116 C.
$\mathbf{C_7H_7O_3N_2Cl}$	1903 [2] 79). *1) Methyläther d. 4-Chlor-5-Nitro-2-Amido-1-Oxybenzol. Sm. 132° (D.R.P. 137 956 C. 1903 [1] 113; D.R.P. 153 940 C. 1904 [2] 1014).
$\mathbf{C_7H_7O_3N_2Br}$	(D.R.F. 187930 C. 1805 [1] 113, B.R.F. 1803 S.
$C_7H_7O_8C1S$	*6) 4-Chlorphenylmethan-α-Sulfonsaure. Anilinsalz (D.R.P. 140 940
	 C. 1904 [1] 66). 2-Chlorphenylmethan-α-Sulfonsäure. Na, K, Anilinsalz (D.R.P. 141783 C. 1903 [1] 1324; D.R.P. 146946 C. 1904 [1] 66; D.R.P. 150366 C. 1904 [1] 1307).
$C_7H_7O_4NS$	*7) I-Amid d. Benzol-1-Carbonsäure-2-Sulfonsäure + H ₂ U. Salze sigha (42), 30, 364 C. 1904 [1] 276).
	*8) 2-Amid d. Benzol-1-Carbonsaure-2-Sulfonsaure. Salze siene
	*9) 3-Amid d. Benzol-1-Carbonsäure-3-Sulfonsäure. Sm. 237—238° (Am. 30, 329 C. 1903 [2] 1123).
	(Am. 50, 525 C. 1000 [2] 1120).

$C_7H_7O_4NS$	14) Benzoylsulfaminsäure (Benzamidosulfonsäure). Ag, Ag ₂ , Benzamidsalz (A. 333, 283 C. 1904 [2] 904).
$\mathbf{C_7H_7O_5NS}$	*10) 2-Amidobenzol-1-Carbonsäure-4-Sulfonsäure (D.R.P. 138188 0. 1903 [1] 371).
	23) 3-Amid d. 4-Oxybenzol-1-Carbonsäure-3-Sulfonsäure. Sm. 258° (Zers. bei 265°). Na + 4H ₂ O, Ba + 6¹/ ₂ H ₂ O (Am. 31, 41 C. 1904 [1] 441).
$C_7H_7O_6NS$	*3) 5-Nitro-2-Oxyphenylmethan-α-Sulfonsäure (D.R.P. 150313 C. 1904 [1] 1115).
C_7H_8ONC1	*8) Methyläther d. 4-Chlor-2-Amido-1-Oxybenzol. Sm. 84° (D.R.I'. 137956 C. 1903 [1] 112).
	12) 5-Chlor-3-Amido-4-Oxy-1-Methylbenzol. Sm. 89-90°. HCl (A. 328, 313 O. 1903 [2] 1247).
$\mathbf{C_7H_8ON_2Br_2}$	1) Methylamid d. 3,4-Dibrom-1-Methylpyrrol-2-Carbonsäure. Sm. 137° (B. 37, 2801 C. 1904 [2] 533).
$C_7H_8O_2NCl$	*1) 4[oder 6]-Chlor-6[oder 4]-Amido-2,5-Dioxy-1-Methylbenzol. Sm. 160—162° (A. 328, 317 C. 1903 [2] 1247).
$\mathbf{C_7H_8O_8N_2S}$	*9) Diamid d. Benzol-1-Carbonsäure-2-Sulfonsäure. Sm. 263 o (Am. 30, 363 C. 1904 [1] 276).
	 10) Phenylsulfonnarnstoff. Sm. 167,4° (B. 37, 694 C. 1904 [1] 1074). 11) Methylester d. P-Acetylamidothiazol-P-Carbonsäure. Sm. 178° u. Zers. (B. 36, 3550 C. 1903 [2] 1379).
$\mathbf{C_7H_8O_4N_2S}$	*10) Amid d. 4-Nitro-1-Methylbenzol-2-Sulfonsäure (D.R.P. 143455 C. 1903 [2] 405).
$\mathbf{C_7H_8O_4N_2S_2}$	1) Methylenamid d. Benzol-1, 3-Disulfonsäure. Zers. oberh. 180° (B. 37, 4104 C. 1904 [2] 1727).
$\mathbf{C_7H_8O_5N_2S}$	 5-Nitro-2-Amidophenylmethan-α-Sulfonsäure. NH, (D.R.P. 150366 C. 1904 [1] 1307).
	10) 1-Methylnitramidobenzol-4-Sulfonsäure. K (A. 330, 33 C. 1904
$\mathbf{C}_7^{\boldsymbol{\cdot}}\mathbf{H}_8\mathbf{O}_6\mathbf{N}_2\mathbf{S}$	 1] 1141). 1) ?-Nitro-?-Amido-2-Oxyphenylmethan-α-Sulfonsäure (D.R.P. 141783 C 1903 [1] 1325).
$\mathbf{C_7H_8O_8N_2S}$	1) Nitromethoxylchinolnitrosäuresulfonsäure. Ba (Am. 29, 119 C. 1903 [1] 709).
$C_7H_8NCl_2P$	1) Methylphenylamidodichlorphosphin. Sd. 251° (A. 326, 221 C. 1903 [1] 866).
$\mathrm{C_7H_8NCl_4P}$	1) Methylphenylamidophosphortetrachlorid (A. 326, 221 C. 1903 [1] 866).
$\mathrm{C_7H_9ON_2Br}$	 Methylamid d. 3 [oder 4]-Brom-1-Methylpyrrol-2-Carbonsäure. Sm. 112° (B. 37, 2801 C. 1904 [2] 533).
$C_7H_9O_2NS$	*11) Methylamid d. Benzolsulfonsäure. Sm. 30-31° (B. 36, 2706 C. 1903 [2] 829).
$C_7H_0O_8NS$	*15) 2-Methylphenylsulfaminsäure (D.R.P. 151134 C. 1904 [1] 1381). *17) 4-Methylphenylsulfaminsäure (D.R.P. 151134 C. 1904 [1] 1381).
$C_7H_9O_4NS$	8) 5-Amido-2-Oxyphenylmethan-α-Sulfonsäure (D.R.P. 150313 C. 1904 [1] 1115).
	9) 4-Amido-1-Oxybenzolmethyläther-3-Sulfonsäure (D.R.P. 146655 C. 1903 [2] 1301).
$C_7H_9O_4N_2Br$	1) Bromakrylylamidoacetylamidoessigsäure. Sm. 202 ° u. Zers. (B. 37, 2511 C. 1904 [2] 427).
$\mathbf{C_7H_9O_5NS_2}$	 α-Phenylsulfonamidomethan-α-Sulfonsäure. Na (B. 37, 4100 C. 1904 [2] 1726).
$\mathbf{C_7H_9N_9ClS}$	1) Aethyläther d. 4-Chlor-2-Merkapto-5-Methyl-1, 3-Diazin. Sd. 157 bis 159 ° ₂₅ (Am. 31, 596 C. 1904 [2] 242).
C_7H_{10} ONCl	*4) Verbindung (aus Chlordimethyläther u. Pyridin). + HgCl ₂ (A. 334, 52 C. 1904 [2] 948).
$C_7H_{10}ONJ$	2) Jodmethylat d. 2-Methylimidomethylfuran (A. 335, 373 C. 1904 [2] 1406).
$C_7H_{10}ON_2S$	7) Aethyläther d. 2-Merkapto-4-Keto-5-Methyl-3,4-Dihydro-1,3-Diazin. Sm. 158-159° (Am. 31, 595 C. 1904 [2] 241).
$C_7H_{10}ON_8C1$	1) 5-Chlor-1-Semicarbazon-1, 2, 3, 4-Tetrahydrobenzol. Sm. 190° (Soc. 83, 500 C. 1903 [1] 1028, 1352).
$\mathbf{C}_7\mathbf{H}_{10}\mathbf{ON}_3\mathbf{Br}$	1) 5-Brom-1-Semicarbazon-1,2,3,4-Tetrahydrobenzol. Sm. 180 bis 198° (Soc. 83, 501 C. 1903 [1] 1352).

	711-7,
$\mathrm{C_7H_{10}O_2N_2S}$	*4) Aethylester d. 2-Amidothiazol-4-Methylcarbonsäure. Sm. 94° (C. r. 138, 422 C. 1904 [1] 789).
	9) Methyläther d. 2-Merkapto-4, 6-Diketo-5-Aethyl-3, 4, 5, 6- Tetrahydro-1, 3-Diazin. Sm. 257° (Am. 32, 353 C. 1904 [2] 1414).
$C_7H_{10}O_2N_3C1$	1) Diäthyläther d. 6-Chlor-2, 4-Dioxy-1, 3, 5-Triazin. Sm. $43-44^{\circ}$; Sd. $144-145^{\circ}_{12-14}$ (B. 36, 3195 C. 1903 [2] 956).
$\mathrm{C_7H_{10}O_8N_2S}$	*2) 2,4-Diamido-Î-Methylbenzol-5-Sulfonsäure (C. 1904 [1] 1410). *4) 2,6-Diamido-1-Methylbenzol-4-Sulfonsäure (C. 1904 [1] 1410). 12) 2,4-Diamido-1-Methylbenzol-6-Sulfonsäure (C. 1904 [1] 1410).
$\mathrm{C_7H_{10}O_4N_2Br_2}$	1) $\alpha\beta$ -Dibrompropionylamidoacetylamidoessigsäure. Sm. 184° u Zers. (B. 37, 2509 C. 1904 [2] 427).
$C_7H_{10}O_4N_2S$	3) 2, 6-Diamido-1-Oxybenzolmethyläther-4-Sulfonsäure (D.R.P. 148085 C. 1904 [1] 135).
$\mathrm{C_7H_{10}O_6NBr}$	1) Diäthylester d. Bromnitromalonsäure. Sd. 136-137° ₁₁ (B. 37, 1780 C. 1904 [1] 1483).
$C_7H_{10}NCIS$	1) Chlormethylat d. 2-Merkaptopyridin-2-Methyläther. Sm. 97°. 2 + PtCl ₄ (A. 331, 250 C. 1904 [1] 1222).
$\mathbf{C}_{7}\mathbf{H}_{10}\mathbf{NClSe}$	1) Chlormethylat d. 2-Selenopyridin-2-Methyläther. Sm. 86°. 2 + PtCl ₄ (A. 331, 253 C. 1904 [1] 1222).
$C_7H_{10}NJS$	*1) Jodmethylat d. 2-Merkaptopyridin-2-Methyläther. Sm. 155 bis 156° (A. 331, 250 C. 1904 [1] 1222).
$\mathbf{C}_{7}\mathbf{H}_{10}\mathbf{N}\mathbf{J}\mathbf{S}\mathbf{e}$	1) Jodmethylat d. 2-Selenopyridin-2-Methyläther. Sm. 186° (A. 331, 252 C. 1904 [1] 1222).
$\mathbf{C}_{7}\mathbf{H}_{10}\mathbf{N}_{8}\mathbf{C}\mathbf{IS}$	1) Methyläther d. 6-Chlor-4-Methylamido-2-Merkapto-5-Methyl- 1,3-Diazin. Sm. 157° (Am. 32, 354 C. 1904 [2] 1415).
$egin{array}{l} \mathbf{C_7H_{11}ONS} \\ \mathbf{C_7H_{11}O_2N_2P} \end{array}$	 2) Caproylsenföl. Sd. 108° 23 (Soc. 85, 807 C. 1904 [2] 201, 519). 2) Monamid-Methylphenylamid d. Phosphorsäure. Sm. 125° (A. 326, 254 C. 1903 [1] 868).
$\mathbf{C_7H_{11}O_4N_2Br}$	1) a-Brompropionylamidoacetylamidoessigsäure. Sm. 166—167° (B. 36, 2986 C. 1903 [2] 1112).
$\mathbf{C_7H_{12}O_2N_4S}$	1) I-Ureïdo-2-Thiocarbonyl-4-Keto-5-Methyl-3-Aethyltetrahydro- imidazol. Sm. 153° (C. 1904 [2] 1027).
$\mathbf{C_7H_{12}O_8NC1}$	2) Aethylester d. α -Chloracetylamidopropionsäure. Sm. 48,5—49,5° (B. 36, 2112 C. 1903 [2] 345).
$\mathbf{C_7H_{18}ONS_2}$	4) Methylester d. Isovalerylamidodithioameisensäure. Sm. 87° (Bl. [3] 29, 51 C. 1903 [1] 446).
$\mathbf{C_7H_{13}O_5NS}$	4) isom. 2-Merkapto - 5 - $\lceil \alpha \beta \gamma \delta$ - Tetraoxybutyl] -4, 5-Dihydrooxazol (Merkaptomannoxazolin). Sm. 216° (C. r. 138, 505 C. 1904 [1] 872).
$C_7H_{14}ONCl$	3) Chlorid d. Dipropylamidoameisensäure. Sd. 100—104° ₁₂ (B. 36, 2273 C. 1903 [2] 563).
$C_7H_{14}ONBr$	 4) Isoamylchloramid d. Essigsäure (Am. 29, 311 C. 1903 [1] 1166). 1) Amid d. γ-Bromhexan-γ-Carbonsäure. Fl. (C. 1904 [2] 1666).
C ₇ H ₁₄ O ₂ NJ	1) Jodmethylat d. 1-Methyltetrahydropyrrol-2-Carbonsaure. Na
$C_7H_{18}ONJ$	 (A. 326, 128 C. 1903 [1] 844). 1) Aethyläther d. Trimethyl-β-Oxyäthylammoniumjodid. Sm. 160—165° (B. 37, 3498 C. 1904 [2] 1320).
	- 7 V -
$\mathbf{C_7H_3O_3Cl_2BrS}$	4) s-Dichlorid d. 4-Brombenzol-1-Carbonsäure-2-Sulfonsäure.
	Sm. 99—100° (Am. 30, 487 C. 1904 [1] 369). 5) uns-Dichlorid d. 4-Brombenzol-1-Carbonsäure-2-Sulfonsäure.
C7H4O3NBrS	Sm. 89-90° (Am. 30, 488 C. 1904 [1] 369). *1) 4-Brom-1-Cyanbenzol-2-Sulfonsäure. NH ₄ , Na + 1½0,
	$K + 1^{1}/_{2}H_{2}O$, $Mg + 8^{1}/_{2}H_{2}O$, $Ba + 6H_{2}O$, $Zu + 8^{1}/_{2}H_{2}O$, $Cu + 4H_{2}O$ (Am. 30, 503 C. 1904 [1] 371).
	*2) Imid d. 4-Brombenzol-1-Carbonsäure-2-Sulfonsäure. NH ₄ (Am. 30, 489 C. 1904 [1] 370).
$C_7H_5O_2NCl_3P$	1) Trichlorid d. Phenylamidophosphinsäure-3-Carbonsäure. Sm. 109-110° (4. 326, 242 C. 1903 [1] 868).
	2) Trichlorid d. Phenylamidophosphinsäure-4-Carbonsäure. Sm. 168° (4. 326, 243 C. 1903 [1] 868).
	3) 2 - Chlorid d. Phosphorsäuredichloridphenylamid - 2 - Carbonsäure (Chlorid d. Phenylamidoxydichlorphosphin - 2 - Carbonsäure).
	Sm. 62° (B. 36, 1827 C. 1903 [2] 201).

$C_7H_5O_7N_2CIS$	 2-Chlor-P-Dinitrophenylmethan-α-Sulfonsäure (D. R. P. 141783 C. 1903 [1] 1325).
$C_7H_6O_8NOS$	2) 2-Chlorid d. Benzol-1-Carbonsäureamid-2-Sulfonsäure. Sm. 63° (Am. 30, 371 C. 1904 [1] 277).
$\mathrm{C_7H_6O_4NBrS}$	6) 1-Amidd. 4-Brombenzol-1-Carbonsäure-2-Sulfonsäure $+1^{1}/_{2}H_{2}O$. Na $+1^{1}/_{2}H_{2}O$, K (Am. 30, 507 C. 1904 [1] 371).
	7) 2-Amid d. 4-Brombenzol-I-Carbonsäure- 2-Sulfonsäure. Sm. $192-197^{\circ}$. Na, K, Mg + $3\mathrm{H}_2\mathrm{O}$, Ca + $2\mathrm{H}_2\mathrm{O}$, Sr + $4\mathrm{H}_2\mathrm{O}$, Ba + $2\mathrm{H}_2\mathrm{O}$ (Am. 30, 508 C. 1904 [1] 371).
$C_7H_6O_4N_2Cl_2S$	1) Dichloramid d. 2-Nitro-1-Methylbenzol-4-Sulfonsäure. Sm. 101° (C. 1904 [2] 435).
$-\mathbf{C_7H_6O_5NC1S}$	*4) 6-Chlor-3-Nitro-1-Methylbenzol-4-Sulfonsäure (D.R.P. 145908 C. 1903 [2] 1099).
1	 6-Chlor-3-Nitrophenylmethan-α-Sulfonsäure. Na (D. R. P. 150366 C. 1904 [1] 1307; D.R. P. 154493 C. 1904 [2] 1557).
$C_7H_7O_2NCl_2S$	*8) Dichloramid d. 1-Methylbenzol-4-Sulfonsäure. Sm. 83° (C. 1904 [2] 435).
	9) Dichloramid d. 1-Methylbenzol-2-Sulfonsäure. Sm. 33 ° (C. 1904 [2] 435).
$C_7H_8ONCl_2P$	*2) 4-Methylphenylmonamid d. Phosphorsäuredichlorid. Sm. 104° (A. 326, 237 C. 1903 [1] 867).
	3) Benzylmonamid d. Phosphorsäuredichlorid. Fl. (A. 326, 174 O. 1903 [1] 819).
C7H8O8NCIS	1) 6-Chlor-3-Amido-1-Methylbenzol-4-Sulfonsäure (D. R. P. 145908 O. 1903 [2] 1099).
	 2-Chlorphenylamidomethan-α-Sulfonsäure (D.R.P. 148760 .C. 1904 [1] 555).
$C_7H_8NCl_2SP$	1) Methylphenylmonamid d. Thiophosphorsäuredichlorid. [8]. (A. 326, 257 C. 1903 [1] 869).
	2) Benzylmonamid d. Thiophosphorsäuredichlorid. Fl. (A. 326, 205 C. 1903 [1] 821).
$\mathbf{C}_7\mathbf{H}_9\mathbf{ONCl}_2\mathbf{P}$	1) Methylphenylamid d. Phosphorsäuredichlorid. Sd. 282° (4). 326, 253 C. 1903 [1] 868).
$\mathbf{C}_7\mathbf{H}_0\mathbf{O}_8\mathbf{NBrP}$	1) 2-Brom-4-Methylphenylmonamid d. Phosphorsäure. Sm. 142° Cu (A. 326, 238 C. 1903 [1] 867).
C7H10ONCIP	1) Aethyläther d. 1-Piperidyloxychlorphosphin. Sd. 125° ₂₅ (A. 326, 157 C. 1903 [1] 761).
$C_7H_{18}O_2NSP$	1) Propylmonamid d. Thiophosphorsäurediäthylester. Sd. 98°, (4. 326, 203 C. 1903 [1] 821).
	— 7 VI —
$\mathbf{C_7H_3O_2NClBr}$	*1) Chlorid d. 4-Brom-1-Cyanbenzol-2-Sulfonsäure. Sm. 82° (Am. 30, 515 C. 1904 [1] 371).
C7H7ONCl2Brl	2. Brom-4-Methylphenylmonamidd. Phosphorsäuredichlorid (A. 326, 238 C. 1903 [1] 867).
	, , , , , , , , , , , , , , , , , , ,

O7H7ON	Olabri 1) 2-Brom-4-Methylphenylmonamidd. Phosphorsäuredichlorid (A. 326, 238 C. 1903 [1] 867).
	C ₈ -Gruppe.
$egin{array}{c} \mathbf{C_8H_8} \ \mathbf{C_8H_{10}} \end{array}$	*3) Metastyrol (B. 35, 4154 C. 1903 [1] 159). *1) Aethylbenzol. Sd. 136° ₇₆₂ (B. 36, 1632 C. 1903 [2] 25; B. 36, 3085 C. 1903 [2] 989).
	*4) 1,4-Dimethylbenzol. Sm. 0° (3—4°) (B. 36, 2117 C. 1903 [2] 350; B. 36, 3086 C. 1903 [2] 990).
$\mathrm{C_{8}H_{12}}$	*1) 1,2-Dimethyl-P-Dihydrobenzol (Cantharen) (A. 328, 115 C. 1903 [2] 245). *2) 3,5-Dimethyl-1,2-Dihydrobenzol. Sd. 133-135° (A. 328, 114 C. 1903 [2] 245).
	*8) 1,1-Dimethyl-1,2-Dihydrobenzol. Sd. 110-111° (A. 328, 113 C. 1903 [2] 245; B. 36, 2692 C. 1903 [2] 1061).
	*0) 1 2-Dimethyl 1 2 Dibyglack and 1 (1) 100 1000 (4 000 14)

*9) 1,3-Dimethyl-1,2-Dihydrobenzol. Sd. 128—130° (A. 328, 114 C. 1903 [2] 245).

11) 1,1-Dimethyl-1,4-Dihydrobenzol. Sd. 135—137° (A. 328, 111 C. 1903 [2] 245).

12) 2-Methyl-4-Aethyl-R-Penten. Sd. 135° (B. 36, 950 C. 1903 [1] 1022). *14) Laurolen (Am. 32, 288 C. 1904 [2] 1222). C_8H_{12} C_8H_{14}

22) Kohlenwasserstoff (aus 1-Oxy-1-Aethylhexahydrobenzol). Sd. 1340, (C. r.

138, 1323 C. 1904 [2] 219; C. r. 139, 344 C. 1904 [2] 704).
*9) 1,3-Dimethylhexahydrobenzol. Sd. 120°₇₅₁ (C. 1904 [2] 955). C_8H_{16}

- 8 II - $\begin{matrix} C_8\mathbf{H}_4O_3\\ C_8\mathbf{H}_4\mathbf{N}_2\end{matrix}$ *1) Anhydrid d. Benzol-1, 2-Dicarbonsäure (Am. 31, 263 C. 1904 [1] 1078). *2) Nitril d. Benzol-1,8-Dicarbonsäure. Sm. 161,5—162° (C. 1904 [2] 101).
1) 1,4-Di[Tribrommethyl]benzol. Sm. 194° (B. 37, 1466 C. 1904 [1] C.H.Br. 3) Phenyläther d. α -Oxyäthin. Sd. 75°_{86} . Cu, Ag (B. 36, 294 C. 1903 C_8H_6O [1] 582). *6) Aldehyd d. Benzolketocarbonsäure + H₂O. Sm. 72—73° (B. 35, 4132 C. 1903 [1] 295; A. 325, 143 C. 1903 [1] 644).

*3) Benzolketocarbonsäure (J. pr. [2] 68, 531 C. 1904 [1] 452).

*16) Piperonal. 2 + 3H₂SO₄ (R. 21, 356 C. 1903 [1] 151).

19) Verbindung + 3H₂O (aus Pannarol) (J. pr. [2] 68, 59 C. 1903 [2] 513).

*1) 3,4-Dioxybenzol-3,4-Methylenäther-1-Carbonsäure (Soc. 83, 621 C. 1903 [1] 591). $C_8H_6O_2$ $C_8H_6O_3$ C8H6O4 C. 1903 [1] 591).

*2) Benzol-1, 2-Dicarbonsäure (D.R.P. 138790 C. 1903 [1] 546; D.R.P. 140999 C. 1903 [1] 1106; R. 21, 352 C. 1903 [1] 150; D.R.P. 139956 C. 1903 [1] 857; C. 1903 [2] 1330).

*3) Benzol-1, 3-Dicarbonsäure. Sm. 348,5° (B. 36, 1798 C. 1903 [2] 283). *5) 2-Oxybenzol-1-Ketocarbonsäure. Sm. 41-420 (B. 35, 4346 C. 1903 [1] 287). *15) 5, -Dioxy-2-Keto-1, 2-Dihydrobenzfuran (Anhydroglykopyrogallol). Sm. 229°. Pb (B. 37, 817 C. 1904 [1] 1150). *4) 4-Oxybenzol-1,3-Dicarbonsäure. Sm. 305° (B. 37, 2122 C. 1904 $C_8H_8O_5$ [2] 438). *12) Benzol-1-Carbonsäure-2-Percarbonsäure (Am. 29, 200 C. 1903 [1] 959). 13) 2,4-Dioxybenzol-l-Ketocarbonsäure. Sm. 1940 (B. 36, 1949 C. 1903 [2] 296). *8) Dianhydrid d. isom. Butan-αβγδ-Tetracarbonsäure (vom Sm. 236°). Sm. 168—169° (B. 36, 3295 C. 1903 [2] 1167).

*2) 1,3-Benzdiazin. Sm. 48—48,5°; Sd. 243°₇₇₂. (2 HCl, PtCl₄), (HCl, AuCl₃ + H₂O) (B. 36, 808 C. 1903 [1] 978; B. 37, 3643 C. 1904 [2] 1512).

*2) Indol (J. pr. [2] 66, 504 C. 1903 [1] 517; B. 37, 1134 C. 1904 [1] 1270; D.R.P. 152683 C. 1904 [2] 166). $C_8H_6O_6$ $C_8H_6N_2$ C_8H_7N *4) Nitril d. 1-Methylbenzol-2-Carbonsäure (B. 36, 14 C. 1903 [1] 398). *6) Nitril d. 1-Methylbenzol-4-Carbonsäure. Sm. 28—29° (B. 36, 14 C. 1903 [1] 398). *3) Acetophenon (B. 36, 756 C. 1903 [1] 832; C. r. 136, 576 C. 1903 [2] 1110; C. 1904 [1] 1259).

*4) 1,2-Dihydrobenzfuran (Cumaran). Sd. 188—190° (B. 36, 2876 C. 1903 C₈H₈O

*6) Aldehyd d. Phenylessigsäüre (C. r. 137, 989 C. 1904 [1] 257).

*7) Aldehyd d. 1-Methylbenzol-2-Carbonsäure. Sd. 197° (C. r. 137, 717 C. 1903 [2] 1433; B. 36, 4152 C. 1904 [1] 273).

*9) Aldehyd d. 1-Methylbenzol-4-Carbonsäure (C. r. 138, 94 C. 1904,

[1] 509)

*5) Oxymethylphenylketon. Sm. 84—85° (A. 325, 143 C. 1903 [1] 644). *14) 1-Methylbenzol-2-Carbonsäure. + H₂SO₄ (R. 21, 351 C. 1903 [1] 150; Soc. 85, 241 C. 1904 [1] 1006).

*15) 1-Methylbenzol-3-Carbonsäure. (NH₄)H, KH (Soc. 83, 1443 C. 1904 [1] 510).

*16) 1-Methylbenzol-4-Carbonsäure. + H₂SO₄, (NH₄)H, KH (R. 21, 351, C. 1903 [1] 150; Soc. 83, 1443 C. 1904 [1] 510).

*31) Aldehyd d. 2-Oxybenzolmethyläther-1-Carbonsäure. (B. 37, 2347 Anm. C. 1904 [2] 229). *33) Aldehyd d. 4-Oxybenzolmethyläther-1-Carbonsaure (B. 37, 188

C. 1904 [1] 638).

 $C_8H_8O_2$

 $C_8H_8O_8$

8 II. 39) Pannarol. Sm. 176° (J. pr. [2] 68, 58 C. 1903 [2] 513).
*4) Besacetophenon. Sm. 142° (B. 36, 735 C. 1903 [1] 840; C. 1904 C.H.O. $C_{\alpha}H_{\alpha}O_{\alpha}$ [1] 1597) *9) Aethyläther d. 2-Oxy-1, 4-Benzochinon. Sm. 117-119° (B. 35, 4194 C. 1903 [1] 145). *14) 3-Oxyphenylessigsäure. Sm. 129° (B. 37, 2121 C. 1904 [2] 438). *17) 1-Oxymethylbenzol-2-Carbonsäure. Sm. 128° (A. 334, 359 C. 1904 27 1055). *30) 3-Oxybenzolmethyläther-1-Carbonsäure. Sm. 110° (B. 36, 1804 C. 1903 [2] 283). *31) 4-Oxybenzolmethyläther-1-Carbonsäure (C. r. 136, 378 C. 1903 [17 636). Vanillín. + H_2SO_4 (R. 21, 356 C. 1903 [1] 151; C. 1904 [1] 586; M. 24, 836 C. 1904 [1] 367). *43) Vanillin. *44) Aldehyd d. 3,4-Dioxybenzol-4-Methyläther-1-Carbonsäure (M. 24, 837 C. 1904 [1] 367). 55) Methyläther d. 6-Oxy-2-Methyl-1, 4-Benzochinon. Sm. 1470 (B. 36, 894 C. 1903 [1] 966). CaHaO4 *1) Gallacetophenon. Na + H₀O, K, Ba (Soc. 83, 129 C. 1903 [1] 89, 466). *2) Dimethyläther d. 2,6-Dioxy-1,4-Benzochinon. Sm. 249° (Ar. 242, 507 C. 1904 [2] 1386). *4) 2,5-Dioxyphenylessigsäure (C. 1903 [1] 1035; H. 37, 513 C. 1903 [1] 1235). *7) α -Oxy- α -[2-Oxyphenyl] essigsäure (B. 36, 2580 C. 1903 [2] 621). *10) i-3,5-Dioxybenzol-1-Methylbenzol-4-Carbonsäure. Sm. 1520 u. Zers. (M. 24, 894 C. 1904 [1] 512; B. 37, 1413 C. 1904 [1] 1417; C. r. 136, 1469 C. 1903 [2] 284; C. 1903 [2] 1330). *14) 3,5-Dioxy-1-Methylbenzol-2-Carbonsäure (Orsellinsäure). Zers. bei 175-176° (B. 37, 1414 C. 1904 [1] 1417; Bl. [3] 31, 613 C. 1904 [2] 99). *37) Dehydracetsäure (B. 37, 3387 C. 1904 [2] 1220).
52) 2,3,5,6-Tetraoxy-l,4-Dimethylbenzol. Sm. 245° (B. 37, 2388 C. 1904 [21 308) 53) 2,5-Dioxy-1-Methylbenzol-3-Carbonsäure. Sm. 215 (D.R.P. 81297). - *II, 1033. 54) 2,6-Dioxy-1-Methylbenzol-3-Carbonsäure. Sm. 185° u. Zers. (M. 24, 908 C. 1904 [1] 513). 55) 4,5-Dioxy-1-Methylbenzol-3-Carbonsäure. Sm. 204° (D.R.P. 81298). - *II, 1031. 56) 2,5-Dioxy-1-Methylbenzol-4-Carbonsäure. Sm. 205° (D.R.P. 81297). *II, 1033. 57) Aldehyd d. 2, 4, 6-Trioxy-1-Methylbenzol-3-Carbonsäure $+\frac{1}{2}H_2O$. Zers. bei 130° (M. 24, 876 C. 1904 [1] 368). 58) Aldehyd d. 2, 4, 6-Trioxybenzol-4-Methyläther-1-Carbonsäure. Zers. bei 170° (M. 24, 862 C. 1904 [1] 367). *18) 3,4,5-Trioxybenzol-4-Methyläther-1-Carbonsäure. Sm. 240° (B. 36, CaHaOs 216 C. 1903 [1] 455). 21) Oxyessig-2, 3-Dioxyphenyläthersäure (Pyrogallolmonoglykolsäure). Sm. 153-154° (D.R.P. 155 568 C. 1904 [2] 1443).

22) 2-Acetoxylmethylfuran-5-Carbonsäure. Sm. 115-117° (B. 36, 2590 C. 1903 [2] 617).

23) 1-Methylcarbonat d. 1, 2, 3-Trioxybenzol. Sm. 120° (B. 37, 108 C. 1904 [1] 584).

 Gem. Anhydrid d. Essigsäure u. d. α-Keto-γ-Oxybutan-αγ-Dicarbonsäure-αγ-Lakton. Sm. 112-113° (R. 22, 283 C. 1903 [2] 107). *1) Monoanhydrid d. Butan- $\alpha\beta\gamma\delta$ -Tetracarbonsäure (vom Sm. 236°). CaHaO,

Sm. 168-169° (B. 36, 3295 C. 1903 [2] 1167). Sm. 126—127°; Sd. 303—304°, C,H,N, *10) 3, 4-Dihydro-1, 3-Benzdiazin.

(2HCl, ZnCl₁) (B. 36, 807 C. 1903 [1] 978; B. 37, 3645 C. 1904 [2] 1515).
*12) Nitril d. Phenylamidoessigsäure. Sm. 43° (48°) (D.R.P. 142559 C. 1903 [2] 81; D.R.P. 151538 C. 1904 [1] 1308; B. 37, 4081 C. 1904 [2] 1723).

C,H,N, *16) Nitril d. 4-Amidophenylessigsäure. Sm. 46° (B. 35, 4403 C. 1903 28) Nitril d. 4-Methylamidobenzol-I-Carbonsäure. Sm. 85-86° (B. 37, 1741 C. 1904 [1] 1599). 29) Nitril d. 6-Amido-1-Methylbenzol-2-Carbonsäure. Sm. 95,5° (B. 37, 1025 C. 1904 [1] 1203). *7) 2,3-Diamido-1,4-Benzdiazin (B. 36, 4039 C. 1904 [1] 182). $C_8H_8N_4$ 10) α-Amido-α-Cyanamido-α-Phenylimidomethan (Phenylcyanguanidin). Sm. 190—191° (C. 1903 [2] 662). 11) 5-Amido-1-Phenyl-1,2,3-Triazol. Sm. 139° (B. 35, 4060 C. 1903 1] 171]. 12) Nitril d. Methylphenylamidoazoameisensäure (2-Phenyl-2-Methyl-1-Cyantriazen). Sm. 69-70° (B. 37, 2379 C. 1904 [2] 322). $C_8H_8Cl_2$ *3) $\beta\beta$ -Dichloräthylbenzol. Sd. 210—220 $^{\circ}_{760}$ (B. 36, 3910 C. 1903 [2] 1439). 17) 4-Dichlormethyl-I-Methylbenzol. Sm. 48-49° (B. 36, 1875 C. 1903 [2] 286). 18) 3,5-Dichlor-1,2-Dimethylbenzol. Sm. 3-4°; Sd. 226°, (Soc. 81, 1534 C. 1903 [1] 21, 140). C₈H₉O 1) Verbindung (aus 2-Oxy-1, 3-Dimethylbenzol). Sm. 175—176° (B. 36, 2037) C. 1903 [2] 360). 15) 1,4-Anhydrid d. 4-Methylamido-1-Oxymethylbenzol. HCl (M. 23, C_oH_oN 987 C. 1903 [1] 289). 11) 7-Amido-6-Methylindazol. Sm. 194° (B. 37, 2592 C. 1904 [2] 660). *12) 2-Chlor-1,4-Dimethylbenzol. Sd. 186° (C. r. 135, 1121 C. 1903 [1] 283). 13) β -Bromäthylbenzol. Sd. 217—218°₇₈₄ (C. r. 138, 1049 C. 1904 [1] 1493). *6) 2-Jod-1,4-Dimethylbenzol. Sd. 230°₇₂₂ (A. 332, 46 C. 1904 [2] 40). *8) 4-Jod-1-Aethylbenzol. Sd. 209°₇₃₆ (A. 327, 287 C. 1903 [2] 351). *1) α -Oxyäthylbenzol. Sd. 212—215° (J. pr. [2] 66, 509 C. 1903 [1] 517; α -C. 138, 150 C. 1904 [1] 577) $C_8H_9N_3$ C₈H₉Cl C₈H₉Br C_8H_9J $C_8H_{10}O$ C. r. 138, 150 C. 1904 [1] 577). *6) 2-Oxymethyl-1-Methylbenzol. Sm. 35°; Sd. 219° (Bl. [3] 29, 953 C. 1903 [2] 1117; C. r. 137, 574 C. 1903 [2] 1117).

*12) 2-Oxy-1,3-Dimethylbenzol. Sm. 49° (B. 36, 2036 C. 1903 [2] 360).

*15) 2-Oxy-1,4-Dimethylbenzol. Sm. 74° (C. 1903 [2] 1051).

*17) Methyläther d. Oxymethylbenzol. Sd. 170° (168°) (C. r. 138, 814). C. 1904 [1] 1195; B. 37, 3191 C. 1904 [2] 1109; B. 37, 3695 C. 1904 *19) Methyläther d. 3-Oxy-l-Methylbenzol. Sd. 1780 (R. 21, 331 C. 1903 [1] 78). *20) Methyläther d. 4-Oxy-I-Methylbenzol. Sd. 174—176° (Am. 31, 26 C. 1904 [1] 441). *31) 3-Methyläther d. 3,5-Dioxy-1-Methylbenzol (B. 36, 889 C. 1903 $C_4H_{10}O_2$ [1] 965). *32) Dimethyläther d. 1,2-Dioxybenzol. Sd. 205-206°. Pikrat (B. 37, 2150 C. **1904** [2] 207). *33) Dimethyläther d. 1,3-Dioxybenzol. Sd. 214° (A. 327, 116 C. 1903 [1] 1214; B. 37, 2152 C. 1904 [2] 207).
*34) Dimethyläther d. 1,4-Dioxybenzol (A. 327, 116 C. 1903 [1] 1214). *46) 1-Oxy-4-Keto-1,3-Dimethyl-1,4-Dihydrobenzol. Sm. 540 (740 wasserfrei) (B. 35, 3891 C. 1903 [1] 26; B. 36, 2032 C. 1903 [2] 360).
55) 3,4-Dioxy-1-Aethylbenzol. Sm. 39°; Sd. 157-160°₁₉ (C. r. 138, 1702 *C*. **1904** [2] 436). 56) 3,5-Dioxy-1,2-Dimethylbenzol + H₂O. Sm. 136—137° (wasserfrei) A. 329, 305 C. 1904 [1] 793). 57) 1-Oxy-4-Keto-1, 2-Dimethyl-1, 4-Dihydrobenzol (B. 36, 1626 C. 1903 [2] 31). *2) 2,4,6-Trioxy-1,3-Dimethylbenzol. Sm. 1640 (A. 329, 279 C. 1904) $C_8H_{10}O_3$ *4) 2-Methyläther d. 2,4,6-Trioxy-1-Methylbenzol + H₂O (A. 329, 275 C. 1904 [1] 795). *6) 1,3-Dimethyläther d. 1,2,3-Trioxybenzol. Sm. 55°; Sd. 262,5° (B.

36, 1032 *C*. **1903** [1] 1223).

*9) Monoäthyläther d. 1,2,3-Trioxybenzol. Sm. 102-1040 (Soc. 83, C₈H₁₀O₃ 133 C. 1903 [1] 466). *29) Filicinsäure (A. 329, 289 C. 1904 [1] 796). 35) 3-Methyläther d. 2,3,5-Trioxy-1-Methylbenzol. Sm. 128—129° (B. **36**, 895 C. **1903** [1] 966). 36) 1,2-Dimethyläther d. 1,2,3-Trioxybenzol. Sd. 232-234°. Pikrat (B. 36, 661 C. 1903 [1] 710; M. 25, 513 C. 1904 [2] 1118).
 37) Anhydrid d. β-Hexen-βγ-Dicarbonsäure. Sd. 241—242° (B. 37, 2470 C. 1904 [2] 305). 38) Anhydrid d. cis-δ-Methyl-β-Penten-βδ-Dicarbonsäure. Sm. 88° (Soc. 83, 777 C. 1903 [2] 191, 423; Soc. 85, 157 C. 1904 [1] 720).
 39) Anhydrid d. Crotonsäure. Sd. 128-130° (4m. 29, 194 C. 1903) 40) Anhydrid d. Säure C₈H₁₂O₄. Sm. 66° (C. r. 136, 693 C. 1903 [1] 960). $\mathbf{C_8H_{10}O_4}$ *10) 1,2,3,4-Tetrahydrobenzol-2,5-Dicarbonsäure (Soc. 85, 437 C. 1904 1] 1440). 38) Peroxyd d. Crotonsäure. Sm. 41° (Am. 29, 195 C. 1903 [1] 959). *3) isom. Butan- $\alpha\beta\gamma\delta$ -Tetracarbonsäure. Sm. 236—237°. Ag₄ (B. 36, 3295 C. 1903 [2] 1167). C_8 \mathbf{H}_{10} O_8 11) Diformalschleimsäure. Sm. 160° (R. 21, 319 C. 1903 [1] 138). 12) Diformalzuckersäure. Sm. 103° (R. 21, 316 C. 1903 [1] 137).
 13) Succinperoxyd. Sm. 128° u. Zers. (Am. 32, 55 C. 1904 [2] 765). *5) a-Aethyliden-B-Phenylhydrazin. a-Modif. Sm. 98—100°; B-Modif. Sm. 62—64° (B. 36, 56 C. 1903 [1] 450; B. 36, 88 C. 1903 [1] 452).
*9) 1,2,3,4-Tetrahydro-1,3-Benzdiazin + H₂O. Sm. 49—51° (81°; 76° $C_8H_{10}N_2$ wasserfrei) (B. 36, 811 C. 1903 [1] 978). 17) Methyl-2-Amidobenzylidenamin. Fl. (B. 37, 3654 C. 1904 [2] 1514). 18) 2-Methylbenzylidenhydrazin. Sm. 97° (C. r. 137, 717 C. 1903 [2] $C_8H_{11}N$ *1) Aethylamidobenzol. Oxalat (B. 36, 203 C. 1903 [1] 507; C. r. 138, 1038 C. 1904 [1] 1490). *2) i-\alpha-Amidoathylbenzol (B. 36, 704 C. 1903 [1] 818). *6) 4-Amido-l-Aethylbenzol (A. 327, 286 C. 1903 [2] 351). *7) Dimethylamidobenzol. Oxalat (M. 25, 384 Anm. C. 1904 [2] 320). *18) 4-Amido-1,3-Dimethylbenzol. (HBr, Br₂), (2 HBr, Br₂) (C. r. 138, 1038 C. 1904 [1] 1490; B. 37, 2344 C. 1904 [2] 433). *31) 2,4,6-Trimethylpyridin. (HCl, AuCl₃ + H₂O) (B. 36, 2130 C. 1903 [2] 365; Soc. 83, 763 C. 1903 [2] 443). *42) d-a-Amidoathylbenzol. d-Bromcamphersulfonat (Soc. 83, 1147 C. 1903 [2] 1061). 45) $1-\alpha$ -Amidoäthylbenzol. d-Chlorcamphersulfonat, d-Bromcamphersulfonat (Soc. 83, 1147 C. 1903 [2] 1061). $C_8H_{11}N_3$ 7) 4-Methylphenylguanidin. HNO_8 (B. 37, 1683 C. 1904 [1] 1491). 2) Verbindung (aus d. Verb. $C_8H_{18}OBr_9$). Sd. 165—167° (Soc. 83, 859 CgH, Br C. 1903 [2] 573). $C_8H_{12}O$ 13) Ketobicyklo [1, 2, 3] oktan. Sm. 157-158° (B. 36, 3612 C. 1903 [2] $C_8H_{12}O_2$ *32) 3-Keto-4-Oxymethylen-1-Methylhexahydrobenzol. Sd. 85°₁₂ (A. 329, 119 C. 1903 [2] 1322). *33) \alpha-Heptin-\alpha-Carbons\text{\text{\text{aure.}}} \text{ Ba} + \text{H}_2\text{O}, \text{Phenylhydrazinsalz (C. r. 136, 553 C. 1903 [1] 824). *35) 5-Methyl-1, 2, 3, 4-Tetrahydrobenzol-2-Carbonsäure. Sm. 990 (Soc. 85, 663 C. 1904 [2] 330). *40) Lakton d. cis-1-Oxy-1-Methylhexahydrobenzol-4-Carbonsäure. Sm. 70°; Sd. 185°₁₅₀ (Soc. 85, 660 C. 1904 [2] 330). 42) 2-Keto-1-Oxymethylen-R-Heptamethylen (Oxymethylensuberon). Sd. 100% (A. 329, 128 C. 1903 [2] 1323). βδ-Heptadiën-s-Carbonsaure. Sm. 75-77°. Cu, Ag (C. 1902 [2] 1409; 1903 [2] 556).

44) βδ-Dimethyl-αγ-Pentadiën-α-Carbonsäure. Sm. 93° (B. 36, 15 C. 1903 [1] 387).
45) ε-Methyl-α-Hexin-α-Carbonsäure. Sm. 0°; Sd. 141—144°₁₀ (C. r. 136, 553 C. 1903 [1] 824).

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$\mathbf{C_8H_{12}O_2}$	46) 1,1-Dimethyl-2,3-Dihydro-R-Penten-2-Carbonsäure. Sd. 236° ₇₆₀
	(Scc. 85, 142 C. 1904 [1] 728). 47) Methylester d. α-Hexin-α-Carbonsäure. Sd. 91—93° ₁₉ (C. r. 136, 553 C. 1903 [1] 824).
	48) Methylester d. γγ-Dimethyl-α-Butin-α-Carbonsäure. Sd. 66° ₁₃ (C. r. 136, 553 C. 1903 [1] 824).
	49) Aethylester d. α -Pentin- α -Carbonsäure. Sd. 93—94 $^{\circ}_{24}$ (C. r. 136, 553 C. 1903 [1] 824).
	50) Aethylester d. γ -Methyl- α -Butin- α -Carbonsäure. Sd. 83 $^{0}_{19}$ (C. r. 136, 553 C. 1903 [1] 824).
$\mathbf{C_8H_{12}O_3}$	51) Acetat d. Verb. $C_6H_{10}O_2$. Sd. 190—195° (<i>C. r.</i> 137, 1205 <i>C.</i> 1904 [1] 356). *15) Anhydrid d. $\beta\gamma$ -Dimethylbutan- $\beta\gamma$ -Dicarbonsäure. Sm. 147° (<i>Soc.</i> 85, 554 <i>C.</i> 1904 [1] 1485).
	30) β-Hepten-γζ-Oxyd-α-Carbonsäure (Valaktenpropionsäure). Sd. 253 bis 255° u. Zers. Ca. Ba. Ag (A 331, 194 C. 1904 [1] 1213).
	31) 5-Keto-1,1-Dimethyl-R-Pentamethylen-2-Carbonsäure. Sm. 110° (C. 1903 [1] 923; Soc. 85, 139 C. 1904 [1] 728).
	32) Anhydrid d. 1-β-Methylpentan-γε-Dicarbonsäure. Sd. 155—160° ₁₀ (B. 36, 1751 C. 1903 [2] 117).
arr o	33) Methylester d. 4-Ketohexahydrobenzol-1-Carbonsäure. Sd. 140° ₂₀ (Soc. 85, 426 C. 1904 [1] 1439).
$C_8H_{12}O_4$	*15) trans- $\beta\gamma$ -Dimethyl- α -Buten- $\alpha\gamma$ -Dicarbonsäure. Sm. 148° (Soc. 83, 773 C. 1903 [2] 423). *16) cis- $\beta\gamma$ -Dimethyl- α -Buten- $\alpha\gamma$ -Dicarbonsäure. Sm. 133° (Soc. 83, 773
	(2.1903 [2] 423). *21) i-trans-Hexahydrobenzol-1, 2-Dicarbonsäure. Sm. 221° (C. 1904)
	[2] 1697). *24) cis-Hexahydrobenzol-1,4-Dicarbonsäure. Sm. 160-162° (B. 36,
Ť	2860 C. 1903 [2] 1129). *25) trans-Hexahydrobenzol-1,4-Dicarbonsäure. Sm. 297—308° (B. 36,
	2860 C. 1903 [2] 1129). *43) Terpenýlsäure. Sm. 89° (G. 33 [1] 400 C. 1903 [2] 571).
	*56) Aethylester d. β -Acetoxylpropen- α -Carbonsaure (B. 37, 3399 C. 1904 [2] 1221).
	*76) β -Hexen- $\beta\gamma$ -Dicarbonsäure. Ba + H ₂ O (B. 37, 2471 C. 1904 [2] 305). 86) cis- δ -Methyl- β -Penten- $\beta\delta$ -Dicarbonsäure. Sm. 125° u. Zers. (Soc. 85, 157 C. 1904 [1] 720).
	 87) trans-δ-Methyl-β-Penten-βδ-Dicarbonsäure (trans-ααγ-Trimethylglutakonsäure). Sm. 150° (Soc. 83, 777 C. 1903 [2] 191, 423; C. r. 136, 1140 C. 1903 [1] 1405; Bl. [3] 29, 1023 C. 1903 [2] 1315). 88) Säure (aus Glutakonylglutakonsäuretriäthylester) (C. r. 136, 693 C. 1903
	[1] 960). 80) $\alpha \sim T. a.kton d. \alpha \sim O.x.v. b.u.tan - \alpha \beta - Dicarbonsäure - \beta - A.e.thylester. Sd.$
	$273 - 273,5^{\circ}$ (A. 330, 306 C. 1904 [1] 927; B. 37, 1997 C. 1904 [2] 251.
	parakonsäureäthylester). Sd. 145–150 $^{\circ}_{14}$ (B. 37, 1615 C. 1904 [1] 140 $^{\circ}_{14}$ (B. 36, 1750 C. 1904 [1] 140 $^{\circ}_{14}$ (B. 37, 1615 C. 1904 [1] 140 $^{\circ}_{14}$ (B. 38, 17) 140 $^{\circ}_$
	C. 1903 [2] 116). 92) Lakton d. γ-Oxy-α-Acetoxyl-ββ-Dimethylpropan-α-Carbonsäure?
•	Sd. 122—125 6 ₁₁ (M. 25, 51 C. 1904 [1] 717). 93) Isobutylester d. $\alpha\beta$ -Diketobuttersäure. Sd. 96—100 6 ₁₈ . + 1 / ₂ H ₂ O (Sm. 96 6) (C. r. 138, 1222 C. 1904 [2] 27).
$\mathbf{C_8H_{12}O_5}$	*11) Diäthylester d. Oxalessigsäure (C. r. 138, 1505 C. 1904 [2] 422). 25) cis-1-Oxyhexahydrobenzol-1,4-Dicarbonsäure. Sm. 168—170° (Soc.
	85, 436 C. 1904 [1] 1082, 1440). 26) trans-1-Oxyhexahydrobenzol-1,4-Dicarbonsäure. Sm. 228—230°
	(Soc. 85, 435 C. 1904 [1] 1082, 1440). 27) α -Oxy- α -Butenäthyläther- $\beta\gamma$ -Dicarbonsäure. Sm. 151° (B. 37, 1614)
	C. 1904 [1] 1402). 28) $\beta \delta$ -Lakton d. γ -Oxy- β -Oxymethyl- β -Methylbutan- $\delta \delta$ -Dicarbonsäure.
$\mathbf{C_8H_{12}O_6}$	Sm. 82° (M. 25, 15 C. 1904 [1] 719). *3) Pentan-αγέ-Tricarbonsäure. Sm. 116—118° (Soc. 85, 423 C. 1904
	[1] 1439). 24) Formalmethylenfruktosid. Sm. 92° (R. 22, 163 C. 1903 [2] 108).

25) Formalmethylen-d-Sorbosid. Sm. 54° (R. 22, 164 C. 1903 [2] 109). 26) Formalmethylen-l-Sorbosid. Sm. 54° (R. 22, 164 C. 1903 [2] 109). 27) Formalmethylen-i-Sorbosid. Sd. 81° (R. 22, 164 C. 1903 [2] 109). 28) β -Methylbutan- $\alpha\alpha\delta$ -Tricarbonsäure. Sm. 127—128° u. Zers. Ca C8H12O6 + H₂O (C. 1903 [2] 1425).
 29) β-Methylbutan-αργ-Tricarbonsäure Sm. 165° u. Zers. (Soc. 83, 358 C. 1903 [1] 389, 1122). *24) uns-Aethylphenylhydrazin (C. 1903 [1] 1128). $C_8H_{12}N_2$ 42) 2-Amido-4-Amidomethyl-1-Methylbenzol. Fl. (C. 1904 [2] 200). 43) Crotonaldazin. Sm. 96° (M. 24, 439 C. 1903 [2] 617). 44) R-Heptamethylenpyrazol (Suberonpyrazol). Sm. 66-67°. (2 HCl. PtCl₄) (A. 329, 129 C. 1903 [2] 1323). 45) Pyrazol (aus 3-Semicarbazon-4-Oxymethylen-1-Methylhexahydrobenzol). Sm. 99—100°. HCl, Pikrat, Ag (A. 329, 120 C. 1903 [2] 1322).
46) 2-[β-Methylamidoäthyl] pyridin. Sd. 113—114°₃₀. (2 HCl, PtCl₄ + H₂O), (2 HCl, AuCl₃), Pikrat (B. 37, 169 C. 1904 [1] 672).
47) 2,5-Diāthyl-1,4-Diazin. Sd. 185,5—186°₇₆₇. + 2HgCl₂, (HCl, AuCl₃), Pikrat (B. 37, 2478 C. 1904 [2] 419). 48) Nitril d. Hexan- $\alpha\zeta$ -Dicarbonsäure. Sm. -3.5° ; Sd. 185_{15} (C. r. 136, 246 C. 1903 [1] 583). Verbindung (aus d. Verb. C₈H₁₈OBr₃). Sd. 218-220° (Soc. 83, 859 C. 1903 [2] 573). C₈H₁₂Br₂ 1) Verbindung (aus Guttapercha). = $(C_8H_{18}O)_x$ (C. 1903 [1] 84). *9) Tropidin (A. 326, 20, 28 C. 1903 [1] 778). *14) Hämopyrrol (B. 37, 2472 C. 1904 [2] 306). C, H, O $C_8H_{13}N$ 16) 2,5-Dimethyl-1-Aethylpyrrol (C. 1903 [2] 1281). *1) δ -Oxy- δ -Methyl- α ζ -Heptadiën (C. 1903 [2] 1415). $C_8H_{14}O$ *7) ε-Keto-γ-Methyl-γ-Hepten. Sd. 166° (C. 1903 [2] 656). *18) Aldehyd d. γ-Hepten-γ-Carbonsäure. Sd. 172—174° (M. 25, 337 C. 1904 [1] 1400). *28) isom. Ketodimethylhexahydrobenzol. Sd. $169-170^{\circ}_{789}$ (B. 36, 954) C. 1903 [1] 1022). 30) Aethyläther d. 1-Oxy-1, 2, 3, 4-Tetrahydrobenzol. Sd. 155° (C. 1904) [2] 440; Soc. 85, 1416 C. 1904 [2] 1736). 31) γ -Keto- $\beta\delta\delta$ -Trimethyl- α -Penten. Sd. 137—139 $^{\circ}_{754}$ (C. 1904 [2] 1025). 32) Methylhexahydrophenylketon. Sd. 68 $^{\circ}_{12}$ (Bl. [3] 29, 1051 C. 1903 [2] 1437). 33) r-5-Keto-1,1,2-Trimethyl-R-Pentamethylen. Sd. 164° (C. r. 136, 1143 C. 1903 [1] 1410). 34) 2-Keto-1,1,3-Trimethyl-R-Pentamethylen. Fl. (A. 329, 94 C. 1903) [2] 1071). 35) Aldehyd d. I-Methylhexahydrobenzol-3-Carbonsäure. Sd. 176—178° (B. 37, 852 C. 1904 [1] 1146). Verbindung (aus αγ-Dioxybutan). Sd. 175—185° u. Zers. (M. 25, 7 C. 1904 [1] 716). *11) ε-Methyl-β-Hexen-α-Carbonsäure. Sd. 229—232°. Ag (A. 331, 148 C. 1904 [1] 933).

*51) δε-Diketooktan. Sd. 166—169°₇₅₅ (Bl. [3] 31, 1175 C. 1904 [2] 1701).

*52) δζ-Diketo-β-Methylheptan (Isovalerylaceton). Sd. 76°₁₉. Cu (Bl. [3] C8H14O2 **27**, 1085 *C.* **1903** [1] 225). 63) δs -Diketo- β -Methylheptan. Sd. 59-60°₁₈ (Bl. [3] 31, 1176 C. 1904 [2] 1701). $\beta\delta$ -Diketo-7-Methylheptan (Methylbutyrylaceton). Sd. 89 -90°_{20} (Bl. [3] 27, 1087 C. 1903 [1] 225). 65) Saure (aus Naphta). Sd. 129-130 14 (D.R.P. 150880 C. 1904 [2] 70). *29) Aethylester d. Aethylacetessigsäure (B. 36, 4290 C. 1904 [1] 459). $C_8H_{14}O_3$ *47) Aethylester d. γ -Keto- β -Methylbutan- δ -Carbonsäure. Sd. 86—87 $_{16}^{\circ}$ (*C. r.* **136**, 754 *C.* **1903** [1] 1019). *51) δ-Oxy-β-Hepten-s-Carbonsäure. Fl. Ag (C. 1903 [2] 556).

*53) δ -Oxy- ε -Methyl- β -Hexen- ε -Carbonsaure. Fl. Na + 5H₂O, Ag

*54) eis-1-Oxy-1-Methylhexahydrobenzol-4-Carbonsäure. Sm. 1530

(C. 1903 [2] 556).

(Soc. 85, 661 C. 1904 [2] 330).

*58) β-Ketoheptan-α-Carbonsäure. Sm. 73—74° (C. r. 136, 755 C. 1903 C.H.O. [1] 1019; Bl. [3] 31, 597 C. 1904 [2] 26). *59) Methylester d. γ-Ketohexan-β-Carbonsäure (M. d. Methylbutyrylesigsäure). Sd. 89—90°₁₆ (Bl. [3] 27, 1101 C. 1903 [1] 227).
*60) Methylester d. δ-Keto-β-Methylpentan-s-Carbonsäure. Cu (Bl. [3] 27, 1092 C. 1903 [1] 226). *61) Aethylester d. δ-Öxy-β-Penten-ε-Carbonsäure. Sd. 100°, (C. 1903) [2] 555). *63) Aethylester d. β-Ketopentan-α-Carbonsäure. Sd. 94—96°₁₅. Cu (C. r. 136, 754 C. 1903 [1] 1019).
64) ε-Keto-β-Methylhexan-β-Carbonsäure. Sm. 49—50°. Ag₂ (A. 329, 93 C. 1903 [2] 1071). 65) trans-5-Oxy-1,1-Dimethyl-R-Pentamethylen-2-Carbonsäure. Sm. 100-101° (Soc. 85, 140 C. 1904 [1] 728). 66) Aethylester d. δ -Keto- β -Methylbutan- δ -Carbonsäure. Sd. 93 $^{\circ}_{25}$ (Bl. [3] 31, 1151 C. 1904 [2] 1707). *8) Korksäure (C. 1903 [2] 1330). $C_8H_{14}O_4$ *17) β -Methylpentan- $\beta\delta$ -Dicarbonsäure. Sm. 98° (Soc. 83, 779 C. 1903 [2] 191, 423). *21) \(\beta\)-Methylpentan-\(\gamma\) s-Dicarbonsäure. Sm. 94—95°. Ag₂ (A. 327, 139) C. 1903 [1] 1412). *24) β -Methylpentan- ε ε -Dicarbonsäure. Sm. 98° (C. 1904 [1] 879). *27) $\beta\beta$ -Dimethylbutan - $\alpha\delta$ - Dicarbonsäure. Sm. 86 – 87 ° (C. r. 138, 580 C. 1904 [1] 925). *39) Dimethylester d. β -Methylpropan- $\alpha\beta$ -Dicarbonsäure. Sd. 201—202° (Soc. 85, 548 C. 1904 [1] 1485). *46) Diäthylester d. Aethan-αα-Dicarbonsäure. Sd. 196—197° (A. 325, 145 C. 1903 [1] 644). Sm. 94-95° (B. 36, 1752. 69) $1-\beta$ -Methylpentan- γs -Dicarbonsäure. C. 1903 [2] 117). 70) γ -Methylpentan- $\alpha\delta$ -Dicarbonsäure. Sm. 80°; Sd. 214—216°₁₈ Cu + H₂O, Ag₂ (C. 1903 [2] 1425; C. r. 138, 210 C. 1904 [1] 663). 71) β -Aethylbutan- $\alpha\alpha$ -Dicarbonsäure. Sm. 52—53° (Bl. [3] 31, 350 C. 1904 [1] 1134). 72) γ-Methylester d. β-Methylbutan-βγ-Dicarbonsäure (Soc. 85, 553 C. 1904 [1] 1485). 73) β -Methylester d. β -Methylbutan- $\beta\gamma$ -Dicarbonsäure (Soc. 85, 551 C. 1904 [1] 1485). 74) Methylester d. α-Acetoxyl-β-Methylpropan-β-Carbonsäure. Sd. 191 bis 192°₇₈₇ (Bl. [3] 31, 125 C. 1904 [1] 644).
75) Dimethylester d. Butan-αδ-Dicarbonsäure. Sd. 115°₁₈ (Bl. [3] 29, 1043, 1046 C. 1903 [2] 1424). *11) α-Oxy-β-Isopropylpropan-αγ-Dicarbonsäure (B. 36, 1750 C. 1903 $C_8H_{14}O_6$ [2] 116). 35) cis-γ-Oxy-β-Methylpentan-βδ-Dicarbonsäure. Sm. 115° (Soc. 83, 776
 C. 1903 [2] 191, 423). 36) trans- γ -Oxy- β -Methylpentan- $\beta\delta$ -Dicarbonsäure. Sm. 154—156° (Soc. 83, 776 C. 1903 [2] 190, 422). 37) γ -Oxybutanäthyläther- $\alpha\beta$ -Dicarbonsäure. Fl. Ca + H₂O, Ba, Ag₂ A. 330, 309 C. 1904 [1] 927). *10) Diäthylester d. d-Weinsäure (Soc. 85, 766 C. 1904 [2] 512). 22) γ -Oxy- β -Oxymethyl- β -Methylbutan- $\delta\delta$ -Dicarbonsäure. Ca (M. 25, 16 $C_8H_{14}O_6$ 9) 3,4-Dimethyl-5-Propylisopyrazol? Sd. 148-149°25 (Bl. [3] 27, 1105 C. 1904 [1] 719). C. 1903 [1] 228).
 10) Nitril d. α-[1-Piperidyl]propionsäure. Sd. 93-94°_{12,5} (B. 37, 4086 C. 1904 [2] 1724). C8H14N2 3) Nitril d. Aethylidendi [α-Amidopropionsäure]. Sm. 74-75° (Bl. [3] 29, 1187 C. 1904 [1] 354). *14) d-α-Conicein. Sd. 157—159°. HCl, (HCl, AuCl₃), (HCl, 6 HgCl₂) (B. $C_8H_{14}N_4$

37, 1896 C. 1904 [2] 238).

C. 1903 [2] 1187).

*15) β -Conice (B. 87, 1895 C. 1904 [2] 238).

2,2,5,5-Tetramethyl-2,5-Dihydropyrrol. (2HCl, PtCl₄) (B. 36, 3372

 $C_8H_{15}N$

*27)

30) i-α-Coniceïn. Sd. 156—159° (158—161°). HCl, (HCl, 6 HgCl₂), (2 HCl, PtCl₄), Pikrat (B. 37, 1897 C. 1904 [2] 238; B. 37, 1892 C. 1904 [2] 238). $C_8H_{15}N$ 31) i-s-Conicein. Sd. 151-153°. HCl, (HCl, AuCl₃), Pikrat (B. 37, 1889 C. 1904 [2] 238). C 62.7 - H 9.8 - N 27.4 - M. G. 153. $C_8H_{15}N_0$ 2,5-Dipropyl-1,3,4-Triazol. Sm. 70°; Sd. 176°₁₅ Ag (J. pr. [2] 69, 493 C. 1904 [2] 600). 2) 2,5-Diisopropyl-1,3,4-Triazol. Sm. 140-150°. Ag (J. pr. [2] 69, 500 *O.* **1904** [2] 600). *2) δ -Oxy- δ -Methyl- α -Hepten (C. 1903 [2] 1415). $C_9H_{16}O$ *5) δ -Oxy- δ -Aethyl- α -Hexen (C. 1903 [2] 1415). *14) β_{e} -Dimethylhexan- β_{e} -Oxyd (C. 1904 [1] 578). *16) β -Ketooktan. Sd. 170,5—172° (Bl. [3] 29, 674 C. 1903 [2] 487). *17) γ -Ketooktan. Sd. 167—168° (Bl. [3] 31, 1158 C. 1904 [2] 1707). *19) ε -Keto- β -Methylheptan. Sd. 163,5° (Bl. [3] 31, 1158 C. 1904 [2] 1708). *29) 2-Oxy-1, 3-Dimethylhexahydrobenzol (C. 1903 [2] 1415). *33) Aldehyd d. Heptan- α -Carbonsäure. Sd. 81 $^{\circ}_{32}$ (C. r. 138, 699 C. 1904 [1] 1066). *39) ε -Oxy- ε -Methyl- α -Hepten. Sd. 65 $^{\circ}_{14}$ (A. 329, 176 C. 1903 [2] 1413). 40) ?-Oxy-I-Methyl-R-Heptamethylen (*U*. 1903 [2] 1415).
41) α-Oxyāthylhexahydrobenzol. Sd. 87°₁₁ (189°₇₅₅) (*Bl.* [3] 29, 1050 *U*. 1903 [2] 1437; *U. r.* 139, 344 *U.* 1904 [2] 704).
42) 1-Oxy-I-Aethylhexahydrobenzol. Sm. 33°; Sd. 166°₇₆₀ u. Zers. (*U. r.* 1904). 138, 1321 C. 1904 [2] 219). 43) Alkohol (aus αθ Diamidooktan). Sd. 183—187° (u. 187—193°) (M. 24, 398 O. 1903 [2] 620). 44) Methyläther d. β-Oxy-α-Hepten. Sd. 144,5° (C. r. 138, 287 C. 1904 [1] 719; Bl. [3] 31, 522 C. 1904 [1] 1551).
45) Aldehyd d. Heptan-δ-Carbonsäure. Sd. 159-161° (C. r. 138, 91 C. 1904 [1] 505; Bl. [3] 31, 306 C. 1904 [1] 1133). *3) γ -Oxy- $\beta\beta\delta$ -Trimethylpentan- $\gamma\delta$ -Oxyd (C. 1904 [2] 1025). *8) Diisobutyraldehyd (M. 25, 189 C. 1904 [1] 1000). *10) Caprylsäure. Sm. 16° (Bl. [3] 29, 663 C. 1903 [2] 487; Bl [3] 29, 1120 C. 1904 [1] 259). $C_8H_{16}O_2$ 59) Monoathyläther d. isom. 1,2-Dioxyhexahydrobenzol. Sd. 195% $(U. r. 136, 384 \ C. 1903 [1] 711).$ 60) Bisacetolmethylalkoholat. Sm. 130° (127°); Sd. 196° (193—194°) (C. 1902 [2] 928; A. 335, 257 C. 1904 [2] 1283).
61) Oxyd (aus d. Glycerin d. Methylpropylallylcarbinol). Sd. 217—219° (C. 1904 [2] 185). 62) Aethylester d. β-Methylbutan-β-Carbonsäure. Sd. 141-142° (Bl. [3] 31, 749 C. 1904 [2] 303). 47) β-Oxy-βδ-Dimethylpentan-α-Carbonsäure. Fl. Ca, Zn, Ag (C. 1904) [2] 185). $C_s\mathbf{H}_{16}O_3$ 48) Aethylester d. α-Oxy-β-Methylbutan-β-Carbonsäure. Sd. 108°₂₅ (Bl. [3] 31, 321 C. 1904 [1] 1134). 49) Aethylester d. r-δ-Oxy-β-Methylbutan-δ-Carbonsäure (Ac. d. r-α-Oxyisocapronsäure). Sd. 82°₁₀ (Bl. [3] 31, 1180 C. 1904 [2] 1710).
*3) Dimethyläther d. i-Inosit. Sm. 195,5°; subl. oberh. 200° (B. 36, 3110). $C_8H_{16}O_6$ C. 1903 [2] 1003). 15) Nitril d. δ -Aethylamido- β -Methylbutan- δ -Carbonsäure. Sd. 83,5 C,H,,N bis 84°₁₂ (B. 37, 4093 C. 1904 [2] 1725). 16) Nitril d. a-Isoamylamidopropionsäure. H₂SO₄ (Bl. [3] 29, '1200] C. 1904 [1] 354). 17) Nitril d. Dipropylamidoessigsäure. Sd. 200-2020 (C. 1904 [2] 1378). C,H,N 2) 3,6-Dipropyl-1,4-Dihydro-1,2,4,5-Tetrazin. Sm. 179° (J. pr. [2] 69, 488 C. 1904 [2] 599). 3) 3,6-Diisopropyl-1,4-Dihydro-1,2,4,5-Tetrazin. Sm. 221° u. Zers. (J. pr. [2] 69, 498 C. 1904 [2] 600). 9) $\alpha\delta$ -Dibrom- $\beta\beta\delta$ -Trimethylpentan. Sm. 68°; Sd. 102-103°, (M. 24, $C_8H_{16}Br_2$ 598 *U.* 1903 [2] 1235).

*9) d-Coniin (*B.* 37, 2429 *C.* 1904 [2] 442).

*12) Isoconiin (*B.* 36, 3698 *U.* 1903 [2] 1382). $C_8H_{17}N$

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39) \varepsilon-Amido-\circ.-Dimethyl-\theta-Hexen. Sd. 150\circ<sub>780</sub>. (2HCl, PtCl<sub>4</sub>) (B. 36,
C8H17N
                                   .. 1903 🚉 : 🖖
                    40) Aethylamidohexahydrobenzol. Sd. 164° (C. r. 138, 1258 C. 1904
                    41) Dimethylamidohexahydrobenzol. Sd. 165° (C. r. 138, 1258 C. 1904
                          [2] 105).
                    42) 2-Methyl-5-Isopropyltetrahydropyrrol. Sd. 150-151°. HCl (C.
                         1903 [2] 1324).
                    *1) \alpha-Chloroktan. Sd. 78^{\circ}_{15} (Bl. [3] 31, 673 C. 1904 [2] 184). 
*1) \alpha-Oxyoktan. Sd. 96^{\circ}_{17} (C. r. 136, 1677 C. 1903 [2] 419; Bl. [3] 31,
C<sub>8</sub>H<sub>17</sub>Cl
C_8H_{18}O
                          673 O. 1904 [2] 184).
                    *3) \delta-Oxy-\delta-Methylheptan (C. 1903 [2] 1415).

31) Propyläther d. α-Oxypentan (Propylamyläther). Sd. 130° (C. r. 138, 814 C. 1904 [1] 1195).
*3) α γ - Dioxy - ββδ - Trimethylpentan. Sm. 51°; Sd. 222° (M. 25, 195 C. 1904 [1] 1001; M. 25, 252 C. 1904 [1] 1330).
*13) βε-Dioxy-βε-Dimethylhexan. Sm. 88,5-89° (C. 1904 [1] 578).
14) α θ-Dioxyoktan. Sm. 58,5° (63°); Sd. 172°<sub>20</sub> (M. 24, 404 C. 1903 [2] 620; C. r. 137, 329 C. 1903 [2] 711; M. 25, 345 C. 1904 [1] 1399).
15) isom. Dioxyoktan. Sd. 151-159°<sub>12-15</sub> (M. 24, 405 C. 1903 [2] 620).
16) α δ-Dioxy-ββδ-Trimethylpentan. Sm. 86°; Sd. 209-211° (M. 24, 600 C. 1903 [2] 1235).
17) γ δ-Dioxy-ββδ-Trimethylpentan. Sm. 64,5-65°; Sd. 201-202,5°<sub>745</sub> (C. 1904 [2] 1025).
18) α-Aethyläther d. αβ-Dioxy-β-Aethylbutan. Sd. 168° (C. r. 138, 91

                    31) Propyläther d. \alpha-Oxypentan (Propylamyläther). Sd. 130° (C. r. 138,
C_8H_{18}O_2

18) α-Aethyläther d. αβ-Dioxy-β-Aethylbutan. Sd. 168° (C. r. 138, 91 C. 1904 [1] 505; Bl. [3] 31, 303 C. 1904 [1] 1133).
*2) 1-Amido - 2-Methyl - 5-Aethylhexahydropyridin. Sd. 180—185°

C_8H_{18}N_2
                          (C. 1903 [1] 1034).
                    *5) 1,4-Diäthylnexahydro-1,4-Diazin. Sd.169-171°. (2HCl, PtCl<sub>4</sub>) (B.36,
                          144 C. 1903 [1] 526).
                    15) 3,5-Diamido-1,1-Dimethylhexahydrobenzol. Sd. 103-105^{\circ}_{9-10}. 2CHl,
                    2HNO<sub>3</sub>, H<sub>2</sub>PO<sub>4</sub>, Oxalat (A. 328, 109 C. 1903 [2] 245).
16) 1-Amido-2, 4, 6-Trimethylhexahydropyridin. Sd. 180-185° (C. 1903)
                           [1] 1034).
                    *7) Diisobutylamin. (2 HCl, PtCl<sub>4</sub>) (C. 1904 [1] 923).
C_8H_{19}N
                    *1) αθ-Diamidooktan (M. 24, 393 C. 1903 [2] 620).
*1) Zinntetraäthyl. Sd. 175° (180—181°, 58) (C. 1904 [1] 353; B. 37, 320
C<sub>8</sub>H<sub>20</sub>N<sub>2</sub>
C_8H_{20}Sn
                           C. 1904 [1] 637).
                                                          - 8 III -
                       4) Anhydrid d. 3,5-Dichlorbenzol-1,2-Dicarbonsäure. Sm. 89° (Soc.
 C<sub>8</sub>H<sub>2</sub>O<sub>3</sub>Cl<sub>2</sub>
                           81, 1536 C. 1903 [1] 21, 140).
                     *1) Anhydrid d. 3-Nitrobenzol-1,2-Dicarbonsäure. Sm. 1640 (B. 35,
 C_{\mu}H_3O_5N
                           3859 C. 1903 [1] 153).
                     *4) 2,3,4,6-Tetrachlorphenylester d. Essigsäure. Sm. 69 ° (B. 37, 4014
 C<sub>8</sub>H<sub>4</sub>O<sub>2</sub>Cl<sub>4</sub>

C. 1904 [2] 1716).
*4) Imid d. 3-Nitrobenzol-1, 2-Dicarbonsäure. Sm. 216°. K (B. 35,

 C_8H_1O_4N_2
                           3867 C. 1903 [1] 154).
                       5) 6-Nitro-2-Cyanbenzol-1-Carbonsäure. Sm. 99-100° (C. 1903 [2] 431).
                       7) 3,5-Dichlorbenzol-1,2-Dicarbonsaure. Sm. 164° u. Zers. Ag. (Soc.
 C_{\kappa}H_4O_4Cl_2
                           81, 1536 C. 1903 [1] 21, 140).
                     *2) 4,5-Dibrombenzol-1,2-Dicarbonsaure. Sm. 209° (A. 334, 365 C.
  CaH,OBr
                           1904 [2] 1055).
                       1) Aethyläther d. Pentachloroxybenzol. Sm. 89-90° (B. 37, 4019
  CaHoCl
                            C. 1904 [2] 1717).
                       5) Phenyläther d. \alpha\beta\beta-Tribrom-\alpha-Oxyäthen. Sm. 94° (B. 36, 292 (...
  C<sub>8</sub>H<sub>5</sub>OBr<sub>3</sub>
                           1903 [1] 581).
                     *2) 4-Nitrophenylacetylen. Sm. 149° (A. 328, 233 C. 1903 [2] 999).
  C<sub>8</sub>H<sub>5</sub>O<sub>2</sub>N
                      *4) Isatin (B. 37, 938 C. 1904 [1] 1216).
                     *6) 2-Cyanbenzol-1-Carbonsäure (B. 37, 3226 C. 1904 [2] 1121).
*7) 3-Cyanbenzol-1-Carbonsäure. Sm. 217° (B. 37, 3225 C. 1904 [2]
                            1121).
                      *8) 4-Cyanbenzol-1-Carbonsaure. Sm. 214°. Ag (B. 18, 1498; B. 37,
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3221 C. 1904 [2] 1120).

- 15) Benzoylisocyansäure. Sm. 25,5-26°; Sd. 202,5-204°, 24 (B. 36, 3218) $C_8H_5O_9N$ C. 1903 [2] 1056).
- *1) Methylester d. 2,4,6-Tribrombenzol-1-Carbonsäure. Sm. 68° (B. C₈H₅O₂Br₈ 37, 3659 C. 1904 [2] 1452).
- 2) 2, 4, 5-Trijodphenylester d. Essigsäure. Sm. 123° (C. r. 137, 1066 $C_8H_5O_2J_3$ C. 1904 [1] 266).
- *6) Isatosäure. Sm. 252—253° u. Zers. (Bl. [3] 31, 884 C. 1904 [2] 673). 7) 2,4,6-Tribrom-3-Oxyphenylessigsäure. Sm. 237° u. Zers. (B. 37, $C_8H_5O_8N$ C₈H₅O₃Br₃ 2121 C. 1904 [2] 438).
- 8) 5-Nitro-4-Phenyl-1, 2, 3, 6-Dioxdiazin. Sm. 110° (A. 328, 251 C. 1903 $C_8H_5O_4N_3$ [2] 1000).
- *4) 4-Chlorbenzol-1, 3-Dicarbonsäure. Sm. 294,5° (B. 36, 1799 C. 1903 C₈H₅O₄Cl [2] 283).
- 8) 2-Aldehyd d. 3-Nitrobenzol-1,2-Dicarbonsäure + H₂O. Sm. 156 bis $C_8H_5O_5N$ 157° (wasserfrei) (M. 24, 820 C. 1904 [1] 372).
 - 9) 1-Aldehyd d. 4-Nitrobenzol-1, 2-Dicarbonsäure. Sm. 159-161° (M. 24, 816 C. 1904 [1] 372).
 - 10) 1,2-Methylenätherester d. 5-Nitro-2-Oxybenzol-1-Carbonsäure. Sm. 110° (A. 330, 92 C. 1904 [1] 1075).
- *1) Nitrild.3,5-Dinitro-2-Oxy-1-Methylbenzol-4-Carbonsäure. Sm. 148° $C_sH_sO_sN_s$
- (B. 36, 4360 C. 1904 [1] 447; B. 37, 1850 C. 1904 [1] 1492). *12) Pyridin-3,4,5-Tricarbonsäure. Zers. bei 261°. Ag₃ (A. 326, 268 $\mathbf{C}_{s}\mathbf{H}_{5}\mathbf{O}_{6}\mathbf{N}$ C. 1903 [1] 927).
- *1) Purpursaure. NH₄ + H₂O (Murexid), K, Na + H₂O, Na₂ + 3 H₂O (A. 333, 29 C. 1904 [2] 768; Am. 31, 662 C. 1904 [2] 316; B. 37, $C_8H_5O_6N_5$
- 2686 C. 1904 [2] 829).
 *3) Methylester d. 2,4,6-Trinitrobenzol-1-Carbonsäure. Sm. 1586 $C_8H_5O_8N_3$ (B. 37, 3660 C. 1904 [2] 1452).
- C 30,5 H 1,6 O 45,7 N 22,2 M. G. 315.

 1) Methylnitramid d. 2,4,6-Trinitrobenzol-1-Carbonsäure. Sm. 173°. $C_8H_5O_9N_5$
- $+ C_0 H_6$ (R. 21, 394 C. 1903 [1] 152; C. 1903 [2] 1173).
- *1) Phenylimid d. Dithiooxalsäure. Sm. 128—129° (C. 1903 | 2] 493).
 1) 1-Jod-2,3-Benzdiazin. Sm. 78° (B. 36, 3377 C. 1903 | 2] 1192).
 *6) 4-Oxy-1,3-Benzdiazin. Sm. 215,5—216,5° (C. 1903 | 1] 174; B. 37, C₈H₅NS₂ $C_8H_5N_2J$
- C_SH₆ON₂ 3649 C. 1904 [2] 1513).
 - *11) Diazoacetophenon. Sm. 49-50° (A. 325, 141 C. 1903 [1] 644).
 - 22) Nitril d. 2-Formylamidobenzol-1-Carbonsäure (C. 1903 | 1 | 174). 23) Nitril d. 3-Formylamidobenzol-1-Carbonsäure. Sm. 150,5-151
 - (C. 1904 [2] 101).
- 1) Aethyläther d. 2, 3, 4, 6-Tetrachlor-1-Oxybenzol. Sm. 59-60° (B. 37, C₈H₆OCl₄ 4016 C. 1904 [2] 1716).
- *1) Phenyläther d. $\beta\beta$ -Dibrom- α -Oxyäthen. C,H,OBr, Sm. 37—38°; Sd. 143°, (B. 36, 290 C. 1903 [1] 581).
 - 8) Phenyläther d. $\alpha\beta$ -Dibrom- α -Oxyäthen. Sd. 155,8% (B. 36, 294) C. 1903 [1] 582).
- 13) Phenyläther d. $\alpha\alpha\beta\beta$ -Tetrabrom- α -Oxyäthan. C.H.OBr. Sd. 201°₁₆ (B. 36, 294 C. 1903 [1] 582).
- $C_8H_6O_2N_2$ *12) 2, 4-Diketo -1, 2, 3, 4-Tetrahydro-1, 3-Benzdiazin (J. pr. [2] 69, 33 C. 1904 [1] 641).

 - 36) 3-Nitroindol. Sm. 210° (G. 34 [2] 60 C. 1904 [2] 710). 37) 5,6-Dioxy-2,3-Benzdiazin. HCl + H₂O (B. 36, 3376 C. 1903 [2]
 - 38) 5,8-Diketo-5,6,7,8-Tetrahydro-1,6[oder 1,7]-Benzdiazin (Dioxychinopyrin). Zers. bei 225°. (2 HCl, PtCl₄), Pikrat (B. 37, 2134 C. 1904 [2] 233).
 - 39) Nitril d. 6-Nitro-1-Methylbenzol-2-Carbonsäure. Sm. 69,5 (B. 37,
 - 1025 C. 1904 [1] 1203). 40) Imid d. 3-Amidobenzol-1,2-Dicarbonsäure. Sm. 256—257° (B. 36, 2496 C. 1903 [2] 567).
- *7) 3,5-Dichlor-1-Methylbenzol-2-Carbonsäure. Sm. 184—185° (Soc. 85, $C_8H_6O_2Cl_2$ 279 C. 1904 [1] 1010).
- *5) 1-Methyläther d. 2,3,5,6-Tetrachlor-4-Oxy-1-Oxymethylbenzol. $C_8H_6O_2Cl_4$ Sm. 150-151° (A. 328, 296 C. 1903 [2] 1248).

- $C_8H_6O_2Br_4$ 9) 2, 2, 4, 4-Tetrabrom-1, 3-Diketo-5, 6-Dimethyl-1, 2, 3, 4-Tetrahydrobenzol. Sm. 128-129° u. Zers. (A. 329, 307 C. 1904 [1] 793). $C_8H_6O_2J_2$ 4) 3,4-Dijodphenylester d. Essigsäure. Fl. (Bl. [3] 29, 606 C. 1903 [2] 359).
 - 5) 3,5-Dijodphenylester d. Essigsäure. Sm. 79° (C. r. 136, 238 C. 1903 [1] 574).
- C,H,O,N, 18) 5-Oxy-4-Phenyl-1, 2, 3, 6-Dioxdiazin. Sm. 133° u. Zers. (A. 328, 255) C. 1903 [2] 1001).
 - 19) Nitril d. α-Oxy-2-Nitrophenylessigsäure. Sm. 95° (B. 37, 948 O. 1904 [1] 1217).
 - 20) Nitril d. 3-Nitro-2-Oxy-1-Methylbenzol-4-Carbonsäure. Sm. 141 bis 142° (B. 36, 4360 C. 1904 [1] 447).
 - 21) Nitril d. 5-Nitro-2-Oxy-1-Methylbenzol-4-Carbonsäure. Sm. 191 bis 193° (B. 36, 4360 C. 1904 [1] 447).
- C₈H₆O₈Br₉ 10) Methylester d. 4,6-Dibrom-3-Oxybenzol-1-Carbonsäure. Sm. 144 bis 145° (G. 32 [2] 338 C. 1903 [1] 580).
- *3) β -Nitro- α -[4-Nitrophenyl]äthen. Sm. 199 ° (A. 325, 14 C. 1903 [1] 287). C₈H₆O₄N₂
- C₈H₆O₄N₄ 4) 4, 6-Dinitro-5-Methylindazol. Sm. 190-191° (B. 37, 2591 C. 1904 [2] 660).
 - 5) 5,7-Dinitro-6-Methylindazol. Sm. 229° (B. 37, 2594 C. 1904 [2] 660)
 - 6) 4,6-Dinitro-7-Methylindazol. Sm. 200° u. Zers. (B. 37, 2587 C. **1904** [2] 659).
- $C_8H_6O_5N_2$ *8) Methyl-3, 5-Dinitrophenylketon. Sm. 82-84° (J. pr. [2] 69, 468 C. 1904 [2] 596)
 - *10) 1-Amid d. 3-Nitrobenzol-1, 2-Dicarbonsäure. Sm. 150-157° (C. **1903** [2] 431).
 - Nitromethyl-4-Nitrophenylketon. Sm. 148-148,5° (A. 325, 18 C. 1903 [1] 287; A. 328, 281 C. 1903 [2] 999).
 1-Amid d. 3-Nitrobenzol-1,2-Dicarbonsäure. Sm. 152-155° (B. 35, 2006).
 - 3862, 3866 C. 1903 [1] 154).
- $C_8H_8O_8N_2$ 16) 4,6-Dinitro-I-Methylbenzol-3-Carbonsäure. Sm. 171—171,5° (G. 33) 21 278 C. 1904 [1] 265).
 - 17) 6-Nitro-4-Amidobenzol-1, 3-Dicarbonsäure. Sm. 280° u. Zers. Pb (G. 33 [2] 287 C. 1904 [1] 265).
- C₈H₆O₆N₄ *2) Hydurilsäure. NH, (Uramilsäure) (A. 26, 314; A. 333, 84 C. 1904 [2] 827).
- 5) 3,5-Dinitro-2-Oxy-1-Methylbenzol-4-Carbonsäure. Sm. 200° (B. $C_8H_6O_7N_2$ **36**, 4361 *C*. **1904** [1] 447). 6) Aldehyd d. 2, 6-Dinitro-3, 4-Dioxybenzol-4-Methyläther-1-Carbon-
- säure. Sm. 164-165° (B. 35, 4394 C. 1903 [1] 340).

 5) Methylamid d. 2,4,6-Trinitrobenzol-1-Carbonsäure. Sm. 285° u. CaHaON
- Zers. (R. 21, 383 C. 1903 [1] 152). *1) Alloxantin + 2H₂O (B. 36, 1581 C. 1903 [1] 1398; A. 333, 57 C. $C_8H_6O_8N_4$
 - 1904 [2] 771). *2) Methylester d. 2,4,6-Trinitrophenylamidoameisensäure. Sm. 192°. K (Soc. 85, 650 C. 1904 [2] 310).
- *2) Nitril d. 4-Chlorphenylessigsäure. Sm. 30° (J. pr. [2] 67, 377 C. C₈H₆NCl 1903 [1] 1356). 10) Nitril d. 6-Chlor-1-Methylbenzol-2-Carbonsäure. Sm. 19°; Sd. 107° 28
- (B. 37, 1025 C. 1904 [1] 1203). 1) 5-Phenyl-1, 2, 3-Thiodiazol. Sm. 53-53,5°. + HgCl₂ (A. 333, 12 C. CaHaNaS
 - 1904 [2] 780). 2) 2-Merkapto-1,3-Benzdiazin. Sm. 229-231° (B. 36, 802 C. 1903 [1] 977).
 - 3) Phenylamid d. Cyanthioessigsäure. Sm. 82° (B. 37, 3718 C. 1904 [2] 1449).
- *2) 2-Thiocarbonyl-4-Phenyl-2, 4-Dihydro-1, 3, 4-Thiodiazol (3-Phenyl- $C_8H_6N_2S_2$ 2,3-Dihydro-1,3,4-Thiodiazol-2,5-Sulfit). Sm. 190° (J. pr. [2] 67, 246 C. 1903 [1] 1264).
- 5) 3,5-Dichlor-4,6-Dibrom-1,2-Dimethylbenzol. Sm. 233° (Soc. 85, C₈H₆Cl₂Br₂ 273, 285 *C.* **1904** [1] 806, 1009).

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*8) Indoxyl (D.R.P. 137208, 137955 C. 1903 [1] 110; D.R.P. 139393 C. 1903 [1] 745; D.R.P. 141749 C. 1903 [1] 1323; B. 36, 1624 C. 1903 [2] 36; D.R.P. 142700 C. 1903 [2] 271; D.R.P. 145601 C. 1903 [2] 1225<u>5</u>. *10) Phtalimidin. HCl, HBr, (HBr, Br,), (HJ, J,) (B. 36, 155 C. 1903 17 444). *16) Nitril d. α -Oxyphenylessigsäure. K + xH₀O (Soc. 85, 1208 C. 1904) [2] 1119). *25) Nitril d. 4-Oxybenzolmethyläther-1-Carbonsäure. Sm. 59.5-60,50 (56°) (B. 36, 370 C. 1903 [1] 577; B. 36, 650 C. 1903 [1] 768).
(26) Methylanthranil. Sd. 245° (121—122°₁₇; 110,5—111°₁₀). + 1¹/₂ HgCl₂, (2HCl, SnCl₄), (2HCl, PtCl₄ + 2H₂O) (Ar. 240, 434 C. 1902 [2] 939; B. 36, 1616 C. 1903 [2] 36; B. 36, 3643 C. 1903 [2] 1331; B. 36, 3649 C. 1903 [2] 1332; B. 36, 4295 C. 1904 [1] 507; B. 36, 4186 C. 1904 [1] 279; B. 37, 967 C. 1904 [1] 1078). 27) Nitril d. 6-Oxy-1-Methylbenzol-2-Carbonsäure. Sm. 1950 (B. 37, 1027 C. 1904 [1] 1203). 28) Nitril d. 2-Oxy-1-Methylbenzol-4-Carbonsäure. Sm. 99,5° (B. 36, 4359 C. 1904 [1] 447). 22) 3-Cyanphenylharnstoff. Sm. 160-1620 (C. 1904 [2] 102) CRH,ON. 23) 5-Oxy-1-Phenyl-1,2,3-Triazol. Sm. 118—119°. HCl, Na (B. 35, 4054 C. 1903 [1] 170; A. 335, 81 C. 1904 [2] 1231).
24) 3-Amido-4-Keto-3,4-Dihydro-1,3-Benzdiazin. Sm. 204° (J. pr. [2] 69, 100 C. 1904 [1] 730). 25) Nitril d. Phenylnitrosamidoessigsäure. Sm. 51-52° (B. 37, 2638) C. 1904 [2] 519). 26) Nitril d. 4-Methylnitrosamidobenzol-1-Carbonsäure. Sm. 125° (B. 37, 1741 C. 1904 [1] 1599). 6) Phenyläther d. β -Brom- α -Oxyäthen. Sd. 115—116° (B. 36, 293 C. C.H.OBr 1903 [1] 581). 15) ?-Tribromoxydimethylbenzol. Sm. 176-177.5° (Soc. 83, 124 C. CaH7OBr 1903 [1] 231, 449). 16) isom. P-Tribromoxydimethylbenzol. Sm. 182—183° (Soc. 83, 128 C. 1903 [1] 231, 449). 17) Phenyläther d. $\alpha\beta\beta$ -Tribrom- α -Oxyäthan. Sd. 191 $^{\circ}_{15}$ (B. 36, 294 C. 1903 [1] 582). 2) Aethyläther d. 2,4,5-Trijod-1-Oxybenzol. [Sm. 120°] (C. r. 137, 1066 C. 1904 [1] 266). C₈H₇OJ₈ $C_RH_7O_2N$ *11) 3-Oxy-2-Keto-2, 3-Dihydroindol. Sm. 170° (B. 37, 946 C. 1904 [1] 1217). *17) Phenylimidoessigsäure. Anilinsalz (A. 332, 277 C. 1904 [2] 701). 32) 5-Oxy-l-Methylbenzoxazol. Sm. 193° (B. 35, 4205 C. 1903 [1] 146). 33) 1-Keto-4-Methyl-1, 2-Dihydrobenzoxazol. Sm. 128° (Am. 32, 17 C. 1904 [2] 696). $C_8H_7O_2N_8$ *1) Phenylurazol. K, Ag₂ (B. 36, 3145 C. 1903 [2] 1071; B. 37, 621 C. 1904 [1] 956). *4) 6-Nitro-2-Methylindazol. (2HCl, PtCl₄) (B. 37, 2578 C. 1904 [2] 658). *5) 7-Nitro-5-Methylindazol. Sm. 192,5° (B. 37, 2588 C. 1904 [2] 659). *6) 6-Nitro-2-Methylbenzimidazol. Sm. 219° (B. 36, 3970 C. 1904 [1] 177). Sm. 81-82° (B. 37, 2583 C. 1904 [2] 659). 16) 4-Nitro-2-Methylindazol. Sm. 128-129° (B. 37, 2584 C. 1904 [2] 17) 5-Nitro-2-Methylindazol. 659). 18) 7-Nitro-2-Methylindazol. Sm. 144—145° (B. 37, 2576 C. 1904 [2] 658). 19) 7-Nitro-3-Methylindazol. Sm. 180-181° (B. 37, 2586 C. 1904 [2] 659). Sm. 259° (B. 37, 2586 C. 1904 [2] 659). Sm. $177-178^{\circ}$ (B. 37, 2586 C. 1904 [2] 20) 5-Nitro-4-Methylindazol. 21) 6-Nitro-4-Methylindazol. 659)22) 4-Nitro-5-Methylindazol. Sm. 198—199° (B. 37, 2590 C. 1904 [2] 660). 23) 6-Nitro-5-Methylindazol. Sm. 231—232° (B. 37, 2593 C. 1904 [2] 660). 24) 4-Nitro-6-Methylindazol. Sm. 206-207 (B. 37, 2592 C. 1904 [2] 660).

25) 5-Nitro-6-Methylindazol. Sm. 173-1740 (B. 37, 2588 C. 1904 [2] 659). $C_8H_7O_2N_8$ 26) 7-Nitro-6-Methylindazol. Sm. 162° (B. 37, 2591 C. 1904 [2] 660). 27) 4-Nitro-7-Methylindazol? Sm. 222,5° (B. 37, 2597 C. 1904 [2] 660). 28) 6-Nitro-7-Methylindazol? Sm. 175—176° (B. 37, 2587 C. 1904 [2] 659). 29) P-Nitro-5-Methylbenzimidazol. Sm. 241° (B. 36, 3971 C. 1904 [1] 178). 30) 5-Amido-4-Phenyl-1,2,3,6-Dioxdiazin. Sm. 135-136° (A. 328, 252 C. 1903 [2] 1001). $C_8H_7O_9Cl$ *14) 6-Chlor-1-Methylbenzol-2-Carbonsäure. Sm. 159° (B. 37, 1026) C. 1904 [1] 1203).
*27) Chlorid d. 2-Oxybenzolmethyläther-1-Carbonsäure. Sd. 145%, (B. 36, 2585 C. 1903 [2] 621). *31) Aldehýd d. 4-Oxy-l-Chlormethylbenzol-3-Carbonsäure. Fl. (B. 37, 192 *C.* **1904** [1] 660). *33) Chlormethylester d. Benzolcarbonsäure. Sd. 116°₁₀ (C. 1903) [2] 656). 35) Aldehyd d. 3-Chlor-4-Oxybenzolmethyläther-1-Carbonsäure. Sm. 53° (B. 31, 1151). — *III, 60. C8H7O2Cl8 *1) Dimethyläther d. 4,5,6-Trichlor-1,2-Dioxybenzol. Sm. 68-69° (C. r. 135, 969 C. 1903 [1] 145).
*7) 4-Brom-1-Methylbenzol-2-Carbonsäure. Sm. 174—176° (C. 1904) C,H,O,Br [2] 200). *2) Dimethyläther d. 4,5,6-Tribrom-1,2-Dioxybenzol. $C_8H_7O_9Br_8$ (C. 1903 [1] 1339; C. r. 135, 968 C. 1903 [1] 144).
*8) Methylester d. 3-Jodbenzol-1-Carbonsäure. Sm. 50°; Sd. 276—277°, (A. 332, 72 C. 1904 [2] 42). C8H7O2J *1) α -Nitromethylphenylketon. Sm. 105—105,5° (106°) (B. 29, 360; $C_8H_7O_8N$ A. 325, 11 C. 1903 [1] 287; B. 36, 2561 C. 1903 [2] 494; A. 328, 239 C. 1903 [2] 999). *7) 3,4-Methylenäther d. anti-3,4-Dioxybenzaldoxim (G. 33 [2] 307 C. 1904 [1] 288). *10) Phenyloxaminsäure. Sm. 150° (A. 335, 89 C. 1904 [2] 1231). *40) Methylester d. 2-Nitrosobenzol-1-Carbonsäure. Sm. 1536 (156,5 bis 157,5°) (B. 36, 2312 C. 1903 [2] 430; B. 36, 3651 C. 1903 [2] 1332).
41) Methylester d. 3-Nitrosobenzol-1-Carbonsäure. Sm. 93° (B. 36, 2313 C. 1903 [2] 430). 42) Methylester d. 4-Nitrosobenzol-1-Carbonsäure. Sm. 128—129,5° (B. 36, 2313 C. 1903 [2] 430).
43) Monamid d. Benzol-1,4-Dicarbonsäure. Sm. noch nicht bei 300°. Ag (B. 37, 3223 C. 1904 [2] 1121). 4) 7-Methyläther d. 3-Oximido-6,7-Dioxy-1,2-Benzisodiazol. Sm. 1690 C₈H₇O₈N₈ u. Zers. (C. 1903 [2] 31, 32). 5) Aldehyd d. 5,6-Dioxydiazobenzolimid-6-Methyläther-2-Carbonsäure (C. 1903 [2] 31). 16) Methylester d. 6-Brom-3-Oxybenzol-1-Carbonsäure. Sm. 126°
 (G. 32 [2] 335 C. 1903 [1] 579). C₈H₇O₈Br *22) 3-Amidobenzol-1, 2-Dicarbonsäure. (NH₄)₂, Ag₂ (B. 36, 2495 $C_8H_7O_4N$ C. 1903 [2] 567). *24) 4-Amidobenzol-1, 3-Dicarbonsäure. Sm. 328-3290 (B. 36, 1804 C. 1903 [2] 283). *28) 1,3-Methylbetain d. Pyridin-3,4-Dicarbonsäure (Apophyllensäure) (M. 24, 520 C. 1903 [2] 888; M. 24, 695 C. 1903 [2] 1282; M. 24, 710 C. 1904 [1] 218). *30) 2-Methylpyridin-4,6-Dicarbonsäure. Sm. 274°. $(NH_4)_2$, $Na_2 + 6H_2O$, $Cu + 4H_2O(R. 28, 136 C. 1904 [2] 193).$ *35) Aldehyd d. 5-Nitro-6-Oxy-1-Methylbenzol-3-Carbonsäure. 152° (B. 37, 3927 C. 1904 [2] 1595). *54) 3,4-Methylenäther d. 3,4-Dioxybenzhydroxamsäure (G. 33 [2] 241 C. 1904 [1] 24; G. 33 [2] 306 C. 1904 [1] 288). *57) 1,3-Methylbetaïn d. Pyridin-2,3-Dicarbonsäure + H₂O. Sm. 151° (M. 24, 202 C. 1903 [2] 48; M. 24, 710 C. 1904 [1] 218). 59) 1,2-Methylenäther d. 5-Nitro-2-Oxy-1-Oxymethylbenzol. Sm. 148° (A. 330, 91 C. 1904 [1] 1075). 60) 3-Methyläther d. 1-Keto-3,5-Dioxy-1,2-Dihydrobenzoxazol. Sm.

242° u. Zers. (M. 23, 954 C. 1903 [1] 286).

$\mathbf{C_8H_7O_4N}$	61)	Aldehyd d. 5-Nitro-2-Oxy-1-Methylbenzol-3-Carbonsäure. Sm. 134° (B. 37, 3916 C. 1904 [2] 1594).
$\mathbf{C_8H_7O_4N_8}$	11)	β -[2-Nitrophenyl]hydrazonessigsäure. Sm. 202° (B. 36, 1378 C. 1903 [1] 1344).
	12)	Nitril d. 5-Nitro-3-Hydroxylamido-2-Oxy-1-Methylbenzol-1-Carbonsäure (o-Kresolpurpursäure). Zers. bei 180°. K (B. 35, 571 C. 1902 [1] 583; B. 37, 1850 C. 1904 [1] 1493).
$C_8H_7O_4Br'$	5)	Brommethyl-2, 3, 4-Trioxyphenylketon. Sm. 158—159° (D.R.P. 71312). — *III, 109.
$\mathbf{C_8H_7O_5N}$	*29)	5-Nitro-2-Oxy-1-Methylbenzol-3-Carbonsäure. Sm. 199° (A. 330, 97 C. 1904 [1] 1076).
•	*32)	Aldehyd d. 5-Nitro-3,4-Dioxybenzol-3-Methyläther-1-Carbon- säure. Sm. 175—176°. K (B. 36, 2933 C. 1903 [2] 888).
	34)	1,2-Methylenäther d. 5-Nitro-2,4-Dioxy-1-Oxymethylbenzol. Sm. 130° (A. 330, 106 C. 1904 [1] 1076).
	35)	6-Nitro-3-Oxy-1-Methylbenzol-4-Carbonsäure. Sm. 219° (A. 330, 100 C. 1904 [1] 1076).
	36)	Aldehydd. 2-Nitro-3,4-Dioxybenzol-4-Methyläther-1-Carbonsäure. Sm. 148—149° (B. 35, 4396 C. 1903 [1] 340).
	37)	Aldehydd. 5-Nitro-3,4-Dioxybenzol-4-Methyläther-1-Carbonsäure. Sm. 113° (B. 35, 4398 C. 1903 [1] 341).
	38)	Aldehydd. 6-Nitro-3,4-Dioxybenzol-4-Methyläther-1-Carbonsäure. Sm. 189° (B. 35, 4395 C. 1903 [1] 340).
	39)	Methyl-2-Nitrophenylester d. Kohlensäure. Fl. (Am. 32, 15 C. 1904 2] 695).
	40)	Methyl-4-Nitrophenylester d. Kohlensäure. Sm. 111—112° (Am. 32, 14 C. 1904 [2] 695).
$\mathbf{C_8H_7O_5N_8}$	13)	α-Oximido-α-[3,5-Dinitrophenyl] äthan. Sm. 122° (J. pr. [2] 69, 469
	14)	C. 1904 [2] 596). α -Oximido- β -Nitro- α -[4-Nitrophenyl] α -Sm. 141° u. Zers. (A. 298 293 α)
	15)	328, 230 C. 1903 [2] 999). 3-Nitro-4-Amidophenyloxaminsäure. Sm. 215° (B. 36, 416 C. 1903
	16)	[1] 631). Hydroxylamid d. 2-Nitrophenyloxaminsäure. Sm. 153° u. Zers.
	17)	NH ₄ , Na, K (Soc. 81, 1568 C. 1903 [1] 157). Hydroxylamid d. 3-Nitrophenyloxaminsäure. Sm. 161° u. Zers. NH ₄ , Na, K (Soc. 81, 1568 C. 1903 [1] 157).
	18)	Hydroxylamid d. 4-Nitrophenyloxaminsäure. Sm. 182° (Soc. 81, 1570 C. 1903 [1] 158).
$C_8\mathbf{H_7}O_5\mathbf{Br}$	2)	5-Brom-2, 4, 6-Trioxy-1-Methylbenzol-2-Carbonsaure + H.O. Sm.
$C_8H_7O_6N$	6)	149° (159—161° wasserfrei) (M. 25, 315 C. 1904 [1] 1494). Methylester d. P-Nitro-2,4-Dioxybenzol-1-Carbonsäure. Sm. 167°
$\mathbf{C_8H_7O_6N_8}$	*2)	(M. 25, 33 C. 1904 [1] 723). 2,4,6-Trinitro-1,3-Dimethylbenzol. Sm. 176° (G. 33 [2] 278 C. 1904 [1] 265).
	13)	2.4-Dinitrophenylamidoessigsäure. Sm. 112° (G. 34 [2] 222 C. 1904 [2] 1393).
$\mathbf{C}_{8}\mathbf{H}_{7}\mathbf{O}_{6}\mathbf{Br}$	1)	Gem. Anhydrid d. Essigsäure u. A-Brom-w-Keto-w-Ovyhuten-gw-
$\mathbf{C_8H_7O_7N_8}$	*4)	Dicarbonsaure-αγ-Lakton. Sm. 86° (R. 23, 150 C. 1904 [2] 193). 2,4,6-Trinitro-5-Oxy-1,3-Dimethylbenzol. Sm. 108° (B. 37, 3477
	6)	C. 1904 [2] 1213). Methyläther d. 2,4,6-Trinitro-3-Oxy-1-Methylbenzol. Sm. 92°
$\mathbf{C_8H_7O_8N_8}$	*1)	(R. 21, 332 C. 1903 [1] 78). Dimethyläther d. 3,4,5 [oder 3,4,6]-Trinitro-1,2-Dioxybenzol. Sm. 147° (R. 23, 114 C. 1904 [2] 205).
	*2)	Dimethyläther d. 2,4,6-Trinitro-1,3-Dioxybenzol. Sm. 125° (R. 21, 324 C. 1903 [1] 79).
$\mathbf{C_8H_7O_8N_5}$	*2)	24, 4.6-Trinitro-3-Methylnitramido-1-Methylbenzol. Sm. 101° (R. 21, 338 C. 1903 [1] 78).
	*3)	24, 355 C. 1903 [1] 76). 2,3,5-Trinitro-4-Methylnitramido-1-Methylbenzol. Sm. 156,5° (<i>J. pr.</i> [2] 67, 520 <i>C.</i> 1903 [2] 238).
$C_8H_7O_9N_5$	2)	methyläther d. 2,4,6-Trinitro-3-Methylnitramidobenzol. Sm. 98° (R. 8, 276; R. 23, 121 C. 1904 [2] 206).

C₈H₇N₂Cl 4) 4-Chlor-2-Methylbenzimidazol. Sm. 199° (B. 36, 4028 C. 1904 [1] 294). 5) Nitril d. 2-Chlorphenylamidoessigsäure. Sd. 174-175 (B. 37, 4082 C. 1904 [2] 1723).
3) 3-Merkapto-5-Thiocarbonyl-1-Phenyl-4,5-Dihydro-1,2,4-Triazol. C₈H₇N₈S₂ Sm. 181° (B. 37, 185 C. 1904 [1] 670). 3) 3,5-Dichlor-4-Brom-1,2-Dimethylbenzol. Sm. 100°; Sd. 265-270° C₈H₇Cl₂Br (Soc. 85, 273 C. 1904 [1] 806, 1008). 4) 3,5-Dichlor-6-Brom-1, 2-Dimethylbenzol. Sm. 42° (Soc. 85, 280 C. 1904 [1] 1009). 1) αβ-Dichlorathyl-3-Jodphenyljodoniumchlorid. Sm. 148° (B. 37, C₈H₇Cl₈J₂ 1309 C. 1904 [1] 1340). C₈H₇BrMg 1) Magnesiumbromidverbindung d. Phenyläthen (C. r. 135, 1347 C. **1903** [1] 328). 17) 4-Methyl-1,3-Phenylenharnstoff. Sm. oberh. 300° (D.R.P. 146914 $C_8H_8ON_2$ C. 1903 [2] 1486).
 2-Keto-1-Dichlormethyl-1-Methyl-1,2-Dihydrobenzol. Sm. 30—33° C, H, OCL (B. 35, 4214 C. 1903 [1] 161). 8) 4-Keto-1-Dichlormethyl-1-Methyl-1,4-Dihydrobenzol. Sm. 550 (B. 35, 4211 C. 1903 [1] 161). C8H8OBr 10) P-Dibromoxydimethylbenzol. Sm. 96,5° (Soc. 83, 127 C. 1903 [1] 231, 449). 11) β -Bromäthyläther d. 2-Brom-1-Oxybenzol. Sd. 160—162 $^{0}_{18}$ (B. 36, 2874 *C.* **1903** [2] 834). 3,3,5,6-Tetrabrom-4-Keto - 2,2 - Dimethyl-1,2,3,4-Tetrahydrobenzol. Sm. 118° (Soc. 83, 125 C. 1903 [1] 231, 449).
 Aethyläther d. 3,4-Dijod-1-Oxybenzol. Fl. (Bl. [3] 29, 606 C. 1903 C₈H₈OBr₄ $C_8H_8OJ_8$ [2] 359). 4) Aethyläther d. 3,5-Dijod-1-Oxybenzol. Sm. 29-30° (C. r. 136, 237 C. 1903 [1] 574). 6) 1-Methylbenzol-2-Thiolcarbonsäure. Fl. (B. 36, 1012 C. 1903 C,H,OS [1] 1078). 7) 1-Methylbenzol-4-Thiolcarbonsäure. Sm. 43-44° (B. 36, 1011 C. 1903 [1] 1078). *8) Benzoyiharnstoff. Sm. 201° (B. 36, 3220 C. 1903 [2] 1056; J. pr. [2] C₈H₈O₂N₂ 70, 241 *C.* 1904 [2] 1462). *17) Amid d. Phenyloxaminsäure (B. 37, 3715 C. 1904 [2] 1449). *19) Diamid d. Benzol-1,2-Dicarbonsäure. Sm. 228-229 (B. 37, 584 C. 1904 [1] 940). *23) Phenylnitrosamid d. Essigsäure (A. 325, 238 C. 1903 [1] 631). *26) Verbindung (aus Acetessigsäureäthylester). Sm. 245° (Р. Gutmann, Dissert., Heidelberg 1903). 29) 2-Nitro-3-Imidomethyl-1-Methylbenzol. Sm. 140° (C. 1900 [2] 751). *III, 40. 30) 4-Nitro-3-Imidomethyl-1-Methylbenzol. Sm. 930 (C. 1900 [2] 751). - *III, 40. 31) Ricinin. Sm. 201,5° (C. r. 138, 506 C. 1904 [1] 896).
6) ο-Χylylensulfon. Sm. 150—152° (B. 36, 188 C. 1903 [1] 467).
7) α-Merkaptophenylessigsäure. Fl. (C. 1903 [2] 1272).
*14) α-Styrolnitrosit (Styrolpseudonitrosit). Sm. 129° u. Zers. (158°?) (B. 36, 2550 C. 1002 [2] 464). $C_8H_8O_2S$ $C_8H_8O_8N_2$ 2559 C. 1903 [2] 494). *15) α -Oximido- β -Nitro- α -Phenyläthan (β -Styrolnitrosit). Sm. 96° (B. 36, 2560 C. 1903 [2] 494). *56) 3-Nitro-4-Methylphenylamid d. Ameisensäure. Sm. 133-1340 (D.R.P. 138839 C. 1903 [1] 427). 57) α-Nitroso-α-Nitro-α-Phenyläthan. Fl. (B. 36, 707 C. 1903 [1] 818). 58) Methyl-5-Nitro-3-Amidophenylketon. Sm. 156-158° (J. pr. [2] 69, 471 C. 1904 [2] 596). 59) 2-Nitro-3-Methylbenzaldoxim. Sm. 104-105° (C. 1900 [2] 751). - *III, 40. 60) 6-Nitro-3-Methylbenzaldoxim. Sm. 134-135° (C. 1900 [2] 751).

61) 1-Amidooximidomethylbenzol-4-Carbonsäure. Sm. noch nicht bei

*III, 40.

320° (B. 37, 3222 C. 1904 [2] 1121).

$\mathbf{C}_{8}\mathbf{H}_{8}\mathbf{O}_{3}\mathbf{N}_{2}$	62) Methylamid d. 3-Nitrobenzol-1-Carbonsäure. Sm. 174° (R. 21, 417
-6-6-3-12	 C. 1903 [1] 506). Methylamid d. 4-Nitrobenzol-1-Carbonsäure. Sm. 218° (R. 21, 417).
	64) 4-Amidophenylmonamid d. Oxalsäure (4-Amidophenyloxaminsäure).
	Sm. noch nicht bei 280°. Ba (B. 36, 413 C. 1903 [1] 630). 65) 5-Nitro-2-Methylphenylamid d. Ameisensäure. Sm. 178—179° (D.R.P. 138839 C. 1903 [1] 427).
$\mathbf{C_8}\mathbf{H_8}\mathbf{O_4}\mathbf{N_2}$	*1) 3,5-Dinitro-l,2-Dimethylbenzol. Sm. 69,5° (C. 1903 [2] 194). *2) 2,4-Dinitro-l,3-Dimethylbenzol. Sm. 82° (G. 33 [2] 278 C. 1904
	[1] 264). *4) 4,6-Dinitro-1,3-Dimethylbenzol. Sm. 93° (G. 33 [2] 278 C. 1904
	[1] 264). *26) 3-Nitro-4-Methylamidobenzol-1-Carbonsäure. Sm. 288° (B. 37, 1029 C. 1904 [1] 1207).
	59) 4-Nitron-2-Nitromethyl-1-Methylbenzol. Sm. 58—59° (C. 1904 [2] 199). 60) 2-Nitro-4-Nitromethyl-1-Methylbenzol. Sm. 72° (C. 1904 [2] 199).
	61) 3,6-Dimethyl-1,2-Diazin-4,5-Dicarbonsaure $+$ H ₀ O. Sm. $225-226$ °
C TT O TT	u. Zers. $K_2 + 3H_2O$, $Ba + 3H_2O$, $Pb + 3H_2O$, Ag_2 (B. 36, 509 (C. 1903 [1] 654).
$C_8H_8O_4N_4$	3) 2-Nitrophenylamidoformylharnstoff (2-Nitrophenylbiuret). Sm. 181° (Soc. 81, 1568 C. 1903 [1] 157).
	4) 3-Nitrophenylamidoformylhárnstoff. Sm. 178° (Soc. 81, 1569 C. 1903 [1] 157).
	5) 4-Nitrophenylamidoformylharnstoff. Sm. 206 ° (Soc. 81, 1570 C. 1903 [1] 158).
	6) 2, 6 - Diketo - 3, 7 - Dimethylpurin - 8 - Carbonsäure. Sm. 345°. K (D. R. P. 153121 C. 1904 [2] 626).
	7) Methylester d. 2, 6-Diketo-3-Methylpurin-8-Carbonsäure. Sm. 290-291 (D.R.P. 153121 C. 1904 [2] 625).
$\mathbf{C_8H_8O_5N_2}$	*13) β -Nitro- α -Oxy- α -[2-Nitrophenyl]äthan (<i>Bl.</i> [3] 29, 527 <i>C.</i> 1903 [2] 244).
$C_8\mathbf{H}_8O_5S$	*8) 1-Methylester d. Benzol-1-Carbonsäure-2-Sulfonsäure. Na + 2H,0,
	Ba + H ₂ O, Ag (<i>Am.</i> 30, 270 <i>C.</i> 1903 [2] 1119). *10) 1-Methylester d. Benzol-1-Carbonsäure-3-Sulfonsäure. Sm. 65—67° (<i>M.</i> 23, 1112 <i>C.</i> 1903 [1] 396).
•	*11) 3-Methylester d. Benzol-I-Carbonsäure-3-Sulfonsäure. Sm. 139 bis 140° (M. 23, 1114 C. 1903 [1] 396).
	12) 1-Methylester d. Benzol-1-Carbonsäure-4-Sulfonsäure. Sm. 99 bis 100°. Ag (M. 23, 1130 C. 1903 [1] 396).
	13) 4-Methylester d. Benzol-1-Carbonsäure-4-Sulfonsäure. Sm. 195 bis 196° (M. 23, 1129 C. 1903 [1] 396).
$C_8H_8O_6N_2$	12) Dimethyläther d. 3,5-Dinitro-I,2-Dioxybenzol. Sm. 101° (R. 23, 112 C. 1904 [2] 205).
$\mathbf{C}_{8}\mathbf{H}_{8}\mathbf{O}_{6}\mathbf{N}_{4}$	*5) 2,3,5-Trinitro-4-Methylamido-1-Methylbenzol. Sm. 129° (<i>J. pr.</i> [2] 67, 534 <i>C.</i> 1903 [2] 239).
•	*7) 3,5-Dinitro-4-Methylnitramido-1-Methylbenzol. Sm. 137° (1. nr. [2])
	67, 543 C. 1903 [2] 240). *8) 2,4,6-Trintro-5-Amido-1,3-Dimethylbenzol. Sm. 206° (R. 21, 330
	C. 1903 [1] 78). 11) 2,4,6-Trinitro-3-Methylamido-1-Methylbenzol. Sm. 138° (R. 21,
	332 C. 1903 [1] 78). 12) 2,5-Dinitro-4-Methylnitramido-1-Methylbenzol . Sm. 122° (<i>J. pr.</i> [2] 67 , 544 C. 1903 [2] 240).
$\mathbf{C_8H_8O_7N_4}$	*1) Methyläther d. 3,5-Dinitro-2-Methylnitramido-1-Ovyhenzol Sm
$C_8H_8O_8N_2$	*4) β_{β} -Diimidobutan- $\alpha \alpha \delta \delta$ -Tetracarbonsäure (Dievendinglynging) (4
$\mathbf{C}_{8}\mathbf{H}_{8}\mathbf{N}_{2}\mathbf{S}_{2}$	4) 2,2'-Dimethylbenzbithjagol (Diäthenyl-2 5-Digulfhydgo n Digmide
	benzol). Sm. 98—100° (Soc. 83, 1206 C. 1903 [2] 1328). 5) Amid d. Phenyldithiooxaminsäure. Sm. 98° (B. 37, 3717 C. 1904
$C_8H_8N_8C1$	[2] 1449). 2) 3-Chlor-4,6-Dimethyl-2,1,5-Benztriazol. Sm. 265—266° (B. 36, 522)
	C. 1903 [1] 649).

 C_9H_9ON

- *10) Benzimidomethyläther. Sd. 95-97° 14-15. Methylsulfat (A. 333, 292) C. 1904 [2] 905).
- *11) α-Oximido-α-Phenyläthan (B. 36, 705 C. 1903 [1] 818)
- *12) β -Oximido- α -Phenyläthan. Sm. 103° (B. 37, 843 C. 1904 [1] 1144).
- *13) anti-2-Methylbenzaldoxim. Sm. 49° (B. 36, 325 C. 1903 [1] 575). *14) anti-4-Methylbenzaldoxim. Sm. 79° (B. 36, 324 C. 1903 [1] 575).
- *26) Amid d. 1-Methylbenzol-2-Carbonsäure. Sm. 147° (B. 37, 3224 C.
- 1904 [2] 1121). *27) Amid d. 1-Methylbenzol-4-Carbonsäure. Sm. 165° (B. 37, 3224 C.
- 1904 [2] 1121). *28) Amid d. Phenylessigsäure. Sm. 155° (J. pr. [2] 69, 29 C. 1904 [1]
- 641). *34) Methylamid d. Benzolcarbonsäure. Sm. 75°; Sd. 167°, (B. 37, 2815)
- C. 1904 [2] 648). *36) Methylphenylamid d. Ameisensäure. Sd. 124,9—125,2° (B. 36, 2476
- C. 1903 [2] 559).
- *47) Amid d. I-Methylbenzol-3-Carbonsäure. Sm. 97° (B. 37, 3224 C. 1904 [2] 1121).
- 51) γ-Oxy-β-[2-Pyridyl]propen. Fl. HCl, (HCl, 6HgCl₂), (2HCl, PtCl₄), (HCl, AuCl₂), Pikrat (B. 37, 742 C. 1904 [1] 1089).
- 52) Aldehyd d. 2-Methylamidobenzol-1-Carbonsäure. Sd. 1120 (B. 37, 981, 988 C. 1904 [1] 1079).

C₈H₉ON₈

- *9) α-Oximido-α-Phenylazoäthan. Sm. 118,5—119,5° (B. 36, 56 C. 1903 [1] 450; B. 36, 87 C. 1903 [1] 452).
- 11) Benzoylguanidin. HCl, $(2 \text{HCl}, \text{PtCl}_4 + \text{H}_2\text{O})$ (Ar. 241, 476 C. 1903) [2] 989).
- 12) 3-Keto-4, 6-Dimethyl-2, 3-Dihydro-1, 2, 5-Benztriazol. nicht bei 360°. (2HCl, $PtCl_4 + 2H_2O$) (B. 36, 519 C. 1903 [1] 649).

C₈H₀OBr

- 10) 5-Brom-4-Oxy-1,3-Dimethylbenzol. Sm. 4-5°; Sd. 228-230° (B. 36, 2876 Anm. C. 1903 [2] 834).
- 11) P-Bromoxydimethylbenzől. Sm. 83,5-84° (Soc. 83, 128 C. 1903 [1] 231, 449).

 $C_8H_9OBr_8$

1) 3, 5, 6-Tribrom-4-Keto-2, 2-Dimethyl-1, 2, 3, 4-Tetrahydrobenzol. Sm. 106° (Soc. 83, 124 C. 1903 [1] 231, 449).

C₈H₉OJ $C_8H_9O_2N$

- 6) 4-Jodoso-1-Aethylbenzol. Sm. 89° (Δ. 327, 288 C. 1903 [2] 351). *1) α-Nitroäthylbenzol. Sd. 115—115,5°₁₁ (B. 35, 3885 C. 1903 [1] 27; B. 36, 706 C. 1903 [1] 818).
- *15) 2-Acetylamido-1-Oxybenzol. Sm. 209° (205°) (B. 36, 2050 C. 1903 [2] 383; Soc. 83, 755 C. 1903 [1] 1419; C. 1903 [2] 447). *17) 4-Acetylamido-1-Oxybenzol (D.R.P. 146265 C. 1903 [2] 1227)
- *26) 2-Methyläther d. 2-Oxybenzaldoxim. Sm. 92° (B. 36, 649 C. 1903 [1] 768).
- *27) 4-Methyläther d. anti-4-Oxybenzaldoxim. Sm. 61° (B. 36, 648 C. 1903 [1] 768; A. 332, 320 C. 1904 [2] 651).
- *39) Phenylamidoessigsäure (D.R.P. 145376 C. 1903 [2] 1098). *44) 2-Methylamidobenzol-1-Carbonsäure. Sm. 182° (179°) (B. 36, 1806 C. 1903 [2] 284; D.R.P. 145604 C. 1903 [2] 1099; M. 24, 718 C. 1904 [1] 218; B. 37, 405 C. 1904 [1] 942; B. 37, 3981 C. 1904 [2] 1728).
- * 61) Aethylbetain d. Pyridin-2-Carbonsäure (M. 24, 709 C. 1904 [1] 218).
- *64) Methylester d. 2-Amidobenzol-1-Carbonsäure. Sd. 126,2—126,8°₁₂ (B. 36, 2476 C. 1903 [2] 559).
- *65) Methylester d. 3-Amidobenzol-l-Carbonsäure. Sm. 36-38° (A. 332, 196 Anm. C. 1904 [2] 210).
- *76) Amid d. 4-Oxybenzolmethyläther-I-Carbonsäure. Sm. 166,5—167,5° (B. 36, 371 C. 1903 [1] 577).
- *77) Phenylamid d. Oxyessigsäure. Sm. 92° (A. 335, 91 C. 1904 [2]
- *80) 1-Methyl-4-Nitromethylbenzol (C. 1904 [2] 199).
- 102) Aethyläther d. 4-Nitroso-1-Oxybenzol. Sm. 33-340 (B. 37, 46 C. 1904 [1] 654).
- 103) 2-[α-Oxyäthyliden]amido-l-Oxybenzol. Sm. 190° u. Zers. (Soc. 83, 755 C. 1903 [1] 1419 C. 1903 [2] 447).

104) Methyl-2-Hydroxylamidophenylketon? Sd. 127—128°₁₆ (B. 32, 3232). $C_8H_9O_2N$ – *III, 98. 105) 4-Methyläther d. isom. anti-4-Oxybenzaldoxim. Sm. 45° (B. 37, 3042 C. 1904 [2] 1214). 106) 1-Amidomethylbenzol-2-Carbonsäure. Sm. 217-220° (M. 24, 953 C. 1904 [1] 916). 107) 4-Methylamidobenzol-1-Carbonsäure. Sm. 228-229° (B. 37, 3979) C. 1904 [2] 1728). 108) Methylphenylmethylennitronsäure. Sm. 45°. Na (B. 36, 706 C. 1903) [1] 818). 109) polym. Säure (aus Hydrazin u. Diacetopropionsäureäthylest = $(C_8H_9O_2N)_x$ (B. 37, 2189 C. 1904 [2] 240). *2) Benzoylamidoharnstoff. Sm. 223° (A. 335, 85 C. 1904 [2] 1231). 109) polym. Diacetopropionsäureäthylester). $C_8H_9O_2N_3$ *10) Amid d. Phenylnitrosamidoessigsäure. Sm. 143° (B. 37, 2639 C. 1904 [2] 519). *13) Amid-Phenylhydrazid d. Oxalsäure. Sm. 231° (Soc. 81, 1566 C. 1903 [1] 157). 23) Phenylguanidin-2-Carbonsäure (o-Guanidinbenzoësäure). Sm. 2600 (Am. 29, 491 C. 1903 [1] 1310). C₈H₉O₂N₅ 7) Verbindung (aus Bisdiazoacetessigsäureäthylester). Zers. oberh. 250°. NH₄ (G. 34 [1] 187 C. 1904 [1] 1332). 3) Dimethyläther d. 2-Jod-1, 4-Dioxybenzol. Sd. 285 0, 285 0, 285 0, 69 $C_8H_9O_2J$ C. 1904 [2] 42). 4) 4-Jodoso-1-Aethylbenzol. Sm. 196,5° (A. 327, 289 C. 1903 [2] 351). *13) Aethyläther d. 2-Nitro-1-Oxybenzol. Sd. 267° (J. pr. [2] 67, 161 $C_8H_9O_9N$ C. 1903 [1] 871). *15) Aethyläther d. 4-Nitro-1-Oxybenzol. Sm. 58° (C. 1903 [2] 1051; R. 23, 37 C. 1904 [1] 1137).
*33) 4-Methoxylbenzhydroxamsäure (G. 33 [2] 241 C. 1904 [1] 24). *52) Methylester d. 4-Amido-3-Oxybenzol-1-Carbonsäure. sulfonat (D.R.P. 147580 C. 1904 [1] 130). *54) Methylester d. 3-Amido-4-Oxybenzol-1-Carbonsäure. HCl, (2 HCl, ZnCl₂), (2HCl, PtCl₄), (HCl, HgCl₂ + H₂O), HBr, HNO₃, H₂SO₄, Benzyl-sulfonat (A. 325, 315 O. 1903 [1] 769; D.R. P. 147580 O. 1904 [1] 130).
72) β-Nitro-α-Oxy-α-Phenyläthan. Na (A. 325, 7 C. 1903 [1] 286).
73) 1-Aethyläthar d. 4-Nitroso-1, 3-Dioxybenzol (J. pr. [2] 70, 316 C. 1904 [2] 1540). 74) Amidomethyl-3,4-Dioxyphenylketon. Zers. bei 300°. HCl (D.R.P. 155632 C. 1904 [2] 1487; B. 37, 4154 C. 1904 [2] 1744).
75) Dimethyläther d. 2-Oximido 5-Oxy-1-Keto-1,2-Dihydrobenzol. Sm. 115-117° (J. pr. [2] 70, 340 C. 1904 [2] 1542). 76) 5-Aethyläther d. 2-Oximido-5-Oxy-1-Keto-1,2-Dihydrobenzol. Sm. 133,5° (147-148°) (M. 19, 539; J. pr. [2] 70, 317 C. 1904 [2] 1540). - *II, 567. 77) 3-Methylamido-4-Oxybenzol-1-Carbonsäure. Sm. 190° (A. 325, 328 C. 1903 [1] 770). 78) Aldehyd d. 2-Amido-3,4-Dioxybenzol-3-Methyläther-1-Carbonsäure. Sm. 128-129° (U. 1903 [2] 31). 79) Methyl-2-Amidophenylester d. Kohlensäure. HCl (Am. 31, 482 C. 1904 [2] 94; Am. 32, 15 C. 1904 [2] 695). 80) Methyl-4-Amidophenylester d. Kohlensäure. HCl (Am. 31, 470) C. 1904 [2] 94; Am. 32, 14 C. 1904 [2] 695). 81) Verbindung (aus Damascenin). HCl + H₂O, HJ (Ar. 242, 296 C. 1904 [2] 131).
*9) 2-Nitro-4-Acetylamido-1-Amidobenzol. $C_8H_9O_9N_9$ Sm. 188° (B. 36, 415 C. 1903 [1] 631). *24) 4-Nitrotrophenylhydrazid d. Essigsäure. Sm. 207° (B. 37, 3237 C. 1904 [2] 1153). 25) β -Amid d. α -Phenylhydrazin- $\alpha\beta$ -Dicarbonsäure. K, Ag (B. 37, 621

2) 4-Nitro-2-Nitrobenzylidenamidoharnstoff. Zers. bei 390 (B. 37,

*2) Dimethyläther d. 4-Nitro-1,2-Dioxybenzol. Sm. 99° (B. 37, 2151

C. 1904 [1] 956).

C. 1904 [2] 207).

1864 C. 1904 [1] 1600).

 $C_8H_9O_8N_5$

 $C_8H_9O_4N$

*4) Phenylsulfonamidoessigsäure. Sm. 165-166° (B. 37, 4101 C. 1904) $C_8H_9O_4N$ [2] 1727). *30) Dimethyläther d. 4-Nitro-1, 3-Dioxybenzol. Sm. 74° (R. 21, 322 C. 1903 [1] 79; R. 23, 119 C. 1904 [2] 206).
31) 3-Methyläther d. 2-Nitro-3, 5-Dioxy-1-Methylbenzol. Sm. 129—131° (B. **36**, 892 *C.* **1903** [1] 966). 32) 3-Methyläther d. 6-Nitro-3, 5-Dioxy-1-Methylbenzol. Sm. 104 bis 106° (B. 36, 890 C. 1903 [1] 966). 33) 2, 4, 6-Trioxy-3-Oximidomethyl-1-Methylbenzol. Zers. bei 170° (M. 24, 877 C. 1904 [1] 369).
 34) 2-Amido-3,5-Dioxy-1-Methylbenzol-4-Carbonsäure. HCl + 2H₂O (B. 37, 1424 C. 1904 [1] 1418). 35) α-[2-Furanoyl]amidopropionsäure. Sm. 169°. Ba, Ag (B. 37, 2957 C. 1904 [2] 993). 36) Amid d. 5-Oxy-1,4-Pyronäthyläther-2-Carbonsäure (A. d. Komensäure). Sm. 159—160° (G. 33 [2] 264 C. 1904 [1] 45). 29) 3,4-Dinitro-1-Dimethylamidobenzol. Sm. 174-175° (B. 37, 2615 C₈H₉O₄N₈ C. 1904 [2] 517). 9) 3,5-Dinitro-4-Methylamido-2-Oxy-1-Methylbenzol. Sm. 151°. Methylaminsalz (J. pr. [2] 67, 557 C. 1903 [2] 240).
10) 3,5-Dinitro-2-Methylamido-4-Oxy-1-Methylbenzol. Sm. 177° (J. pr. $C_8H_9O_5N_3$ [2] 67, 551 C. 1903 [2] 240). 11) Methyläther d. 3,5-Dinitro-2-Methylamido-1-Oxybenzol. Sm. 168° (R. 23, 113 C. 1904 [2] 205).
12) Methyläther d. 4,6-Dinitro-3-Methylamido-1-Oxybenzol. Sm. 1980 (R. 23, 121 C. 1904 [2] 206).
2) 3,5-Dinitro-2-Amido-4-Methylnitrosamido-1-Methylbenzol. Sm. C₈H₉O₅N₅ 164° (J. pr. [2] 67, 562 C. 1903 [2] 241). *1) 2,4,6-Trinitro-1,3-Di[Methylamido] benzol. Sm. 240° (R. 21, 324 $C_8H_9O_6N_5$ C. 1903 [1] 79). 3) 3,5-Dinitro-2-Amido-4-Methylnitramido-1-Methylbenzol. Sm. 178 bis 178,5° (J. pr. [2] 67, 522 C. 1903 [2] 238).
4) β-Nitro-αα'-Dimethylisoallitursäure. Zers. bei 168° (A. 333, 125 C. **1904** [2] 894). 7) 3,5-Dichlor-4-Ámido-1,2-Dimethylbenzol. Sm. 44,5° (Soc. 85, 278 CaHanCla C. 1904 [1] 1009). 7) 2, 4-Dibrom-1-Dimethylamidobenzol. Sd. 2750749 (2 HCl, PtCl₄), C,H,NBr (2 HBr, Br), (2 HBr, Br₂) (B. 37, 2342 C. 1904 [2] 432). *4) Phenylamid d. Thioessigsäure. Sm. 75° (B. 36, 586 C. 1903 [1] 830). C₈H₉NS 7) Phenyläther d. α-Imido-α-Merkaptoäthan. HCl (B. 36, 3466 C. 1903 2] 1243). 8) Methylamid d. Benzolthiocarbonsäure. Sm. 79° (B. 37, 877 C. 1904 [1] 1004). *7) Benzylester d. Amidodithioameisensäure. Sm. 90° (C. r. 135, 975 C.H.NS. C. 1903 [1] 139).
Amid d. 1-Methylbenzol-4-Selencarbonsäure. Sm. 161° u. Zers.
(B. 37, 2553 C. 1904 [2] 520). C_8H_9NSe 1) 3,5-Dichlor-2,3,4-Tribrom-1,1-Dimethyl-1,2,3,4-Tetrahydro- $C_8H_9Cl_2Br_8$ benzol. Sm. 118° u. Zers. (Soc. 85, 272 C. 1904 [1] 805, 1008). *2) 1-Aethylbenzol-4-Jodidchlorid. Sm. 103° (A. 327, 288 C. 1903 [2] C₈H₉Cl₂J 351). *1) Aethylnitrosamidobenzol. Sd. 119,5—120° (B. 36, 2477 C. 1903 $C_8H_{10}ON_2$ [2] 559). *3) 4-Nitroso-1-Dimethylamidobenzol (Soc. 85, 1010 C. 1904 [2] 704).
*4) 2-Methylnitrosamido-1-Methylbenzol (A. 327, 109 C. 1903 [1] 1213).
*38) s-Acetylphenylhydrazin (C. 1903 [1] 829). *43) Methyläther d. α -Imido- α -Phenylamido- α -Oxymethan. Ag (C. 1904) 1] 1560). 45) Hydrazid d. 1-Methylbenzol-2-Carbonsäure. Sm. 124° (J. pr. [2] 69, 368 C. 1904 [2] 534). *46) Hydrazid d. 1-Methylbenzol-3-Carbonsäure. Sm. 97° (J. pr. [2] 69, 369 C. 1904 [2] 534). *47) Hydrazid d. 1-Methylbenzol-4-Carbonsäure. Sm. 117° (J. pr. [2]

69, 369 *C*. **1904** [2] 534).

 $C_8H_{10}ON_2$ *49) Methyl-3,5-Diamidophenylketon. Sm. 133—134° (J. pr. [2] 69, 472

C. 1904 [2] 596).

[2] 894).

53) Formyl-2-Amidobenzylamin (B. 36, 807 C. 1903 [1] 978) 54) Monoformyl-2,4-Diamido-1-Methylbenzol. Sm. 113—114° (D.R.P. 138839 C. 1903 [1] 427). 55) 2-Methylamidobenzaldoxim. Sm. 50,5—51° (B. 37, 985 C. 1904) [1] 1079). C,H,OBr, 1) 5,6-Dibrom-4-Keto-2,2-Dimethyl-1,2,3,4-Tetrahydrobenzol. 96° (Soc. 83, 122 C. 1903 [1] 231, 449). *6) 3-Nitro-1-Dimethylamidobenzol. Sm. 61° (A. 327, 112 C. 1903 [1] 1213; B. 37, 2616 C. 1904 [2] 517). $\mathbf{C}_{8}\mathbf{H}_{10}\mathbf{O}_{2}\mathbf{N}_{2}$ *55) α-Phenylhydrazidoessigsäure. Sm. 168°. HCl (B. 36, 3879 C. 1904 [1] 26). *56) \$\beta\$-Phenylhydrazidoessigsäure. Sm. 172—173° u. Zers. HCl (B. 36, 3879 C. 1904 [1] 26). 81) 3,5-Diacetyl-4-Methylpyrazol + H₂O. Sm. 76—90° (114° wasserfrei) (A. 325, 185 C. 1903 [1] 646). 82) Methylester d. 3,4-Diamidobenzol-1-Carbonsäure. Sm. 108-1090 (D. R. P. 151725 C. 1904 [1] 1588). 83) Amid d. 3-Oxyphenylamidoessigsäure. Sm. 145° (Bl. [3] 29, 967 C. 1903 [2] 1118).
84) Amid d. 4-Oxyphenylamidoessigsäure. Sm. 135—136° (Bl. [3] 29, 967 C. 1903 [2] 1118). 85) Hydroxylamid d. Phenylamidoessigsäure. Sm. 118° u. Zers. (Soc. 81, 1574 C. 1903 [1] 158). 86) Phenylhydrazid d. Oxyessigsäure. Sm. 115-120° (H. 38, 140 C. 1903 [1] 1426). $\mathbf{C_{s}H_{10}O_{2}N_{4}}$ *8) Kaffein (D.R.P. 151133 C. 1904 [1] 1430). *11) Cyklohydrazid d. 3,6-Dimethyl-1,2-Dihydro-1,3-Diazin-4,5-Dicarbonsäure. Sm. oberh. 274°. HCl + H₂O (B. 35, 4322 C. 1903 [1] 337; B. 37, 93 C. 1904 [1] 589). 21) 3-Amidobenzoylamidoharnstoff. (Kryogenin). Sm. 205° (C. 1904) [1] 544). 22) Monophenyldihydrazid d. Oxalsäure. Sm. 205-206° (B. 37, 2425 C. 1904 [2] 341). *1) 1,4-Disemicarbazon-1,4-Dihydrobenzol. Zers. bei 241° (A. 334, 186 C₈H₁₀O₂N₆ C. 1904 [2] 835). $C_8H_{10}O_2S_2$ 2) 1,3-Dimethylbenzol-4-Thiolsulfonsäure. p-Phenylendiaminsalz (J. pr. [2] 70, 392 C. 1904 [2] 1721). *3) Aethyläther d. 5-Nitro-2-Amido-1-Oxybenzol. Sm. 91° (B. 36, $C_8H_{10}O_8N_2$ 4125 C. 1904 [1] 273).
 *12) Aethylester d. δ-Cyan-δ-Imido-β-Ketobutan-γ-Carbonsäure. (Ae. d. α-Dicyanacetessigsäure). Sm. 122° (A. 332, 133 C. 1904 [2] 190). 18) 3-Methyläther d. 2-Amido-3,4-Dioxy-1-Oximidomethylbenzol. Sm. 151—152° (C. 1903 [2] 31). 19) 3-Acetyl-1, 4-Dimethylpyrazol-5-Carbonsäure. Sm. 185—186° (B. 36, 1130 C. 1903 [1] 1138). 20) Methylester d. 3-Acetyl-4-Methylpyrazol-5-Carbonsäure. Sm. 152° (B. 36, 1129 C. 1903 [1] 1138). 21) Aethylester d. β -Dicyanacetessigsäure. Sm. 178° (A. 332, 136 C. 1904 [2] 190). 22) Aethylester d. γ-Dicyanacetessigsäure. C. 1904 [2] 190). Sm. 211° (A. 332, 137 $C_8H_{10}O_8S$ *8) I,4-Dimethylbenzol-2-Sulfonsäure. Na + H₂O (C. 1903 [2] 1051). 20) Methylester d. l-Methylbenzol-4-Sulfonsäure. Sm. 28° (A. 327, 121 C. 1903 [1] 1221). 6) Dimethyläther d. 5-Nitro-2-Amido-1, 4-Dioxybenzol. Sm. 158° (D.R.P. 141398 C. 1903 [1] 1163; D.R.P. 141975 C. 1903 [1] 1380). $C_8H_{10}O_4N_2$?) α -Cyan- α -Oxyessig-[β -Cyan- α -Aethoxyläthyl] äthersäure. Sm. 142° (C. 1904 [1] 159). $C_8H_{10}O_4N_4$ 5) 3,5-Dinitro-2-Amido-5-Methylamido-1-Methylbenzol. Sm. 206 bis 208° (J. pr. [2] 67, 535 C. 1903 [2] 239). 6) αα'-Dimethylisoallitursäure. Sm. 208—210° (A. 333, 121 C. 1904

- $C_8H_{10}O_4S$ *16) 4-Oxy-l-Methylbenzolmethyläther-3-Sulfonsäure. Sm. 105—108°. Na + ${}^{1}/_{2}$ H₂O, K + 2 H₂O, Mg + 8 H₂O, Ca + 12 H₂O, Ba, Cu + ${}^{6}/_{2}$ H₂O, Zn + ${}^{6}/_{2}$ H₂O, Pb + 3 H₂O (Am. 31, 28 C. 1904 [1] 441).

 2) 1, 3-Di[Methylsulfon]benzol. Sm. 195—196° (J. pr. [2] 68, 320
- $C_8H_{10}O_4S_2$ C. 1903 [2] 1170).
 - 3) 1, 4-Di[Methylsulfon]benzol. Sm. 255-256° (J. pr. [2] 68, 331
 - C. 1903 [2] 1171).
 4) Dimethylester d. Benzol-1, 3-Disulfinsäure. Fl. (J. pr. [2] 68, 319 C. 1903 [2] 1170). C 44,8 — H 4,7 — O 37,4 — N 13,1 — M. G. 214.
- $C_8H_{10}O_5N_2$
- Methylester d. δε-Dinitroso-γ-Methylpentan-β-Carbonsäure. Sm. 169° (Soc. 83, 1239 C. 1903 [2] 1421).
 Diäthylester d. 1,2,3,6-Dioxdiazin-4,5-Dicarbonsäure (Bl. [3] 27, 1165 C. 1903 [1] 228; Bl. [3] 31,848 C. 1904 [2] 640; C. 1904 [2] 1537). $C_8H_{10}O_6N_2$ *3) Diäthylester d. Bisanhydronitroessigsäure (Bl. [3] 31, 679 C. 1904
- [2] 195). *4) 4-Brom-1-Dimethylamidobenzol. (HBr, Br), (HBr, Br2) (B. 37, 2341 $C_8H_{10}NBr$ C. 1904 [2] 432).
- $C_8H_{10}NJ$
- 3) 2-[β-Jodpropyl] pyridin. Fl. (B. 37, 174 C. 1904 [1] 673).
 1) Di [Jodmethylat] d. 1,4-Dimethylhexahydro-1,4-Diazin. Zers. bei $C_8H_{10}N_2J_8$ 300° (B. 36, 144° C. 1903 [1] 526).
- α-Imido-β-Phenylamido-α-Merkaptoäthan. Sm. 165° (B. 36, 4302 C. 1904 [1] 447). $C_8H_{10}N_2S$
 - 8) Methyläther d. Phenylamidoimidomerkaptomethan. Sm. 71°. (2HCl, PtCl₄), HJ, HNO₃, Acetat, Pikrat (B. 25, 49; Soc. 83, 554 C. 1903 [1] 1123). II, 390.

 9) Amid d. 4-Amidophenylthioessigsäure. Sm. 173° (B. 35, 3938)
 - C. 1903 [1] 38).
- *6) Methylester d. β-Phenylhydrazidodithioameisensäure. Sm. 136° (J. pr. [2] 67, 248 C. 1903 [1] 1264; B. 36, 1365 C. 1903 [1] 1341). $C_8H_{10}N_2S_2$
- 3) Amid d. Methylphenylamidoazothiocarbonsäure. Sm. 97° (B. 37, $C_8H_{10}N_4S$ 2381 C. 1904 [2] 322).
- *1) 1,3-Phenylendithioharnstoff (D.R.P. 139429 C. 1903 [1] 904). $C_8H_{10}N_4S_2$ $C_8H_{10}Cl_2Br_2$ [1) 3,5-Dichlor-2,5-Dibrom-1,1-Dimethyl-1,2,3,4-Tetrahydrobenzol.
- Fl. (Soc. 85, 279 C. 1904 [1] 1009). 1) Siliciumäthylphenyldichlorid. Sd. 228—230° (C. 1904 [1] 637).
 *11) Methyläther d. 2-Amido-l-Oxymethylbenzol. Oxalat (C. r. 137, 522 C₈H₁₀Cl₂Si
- C_8H_1ON C. 1903 [2] 1060).
 - *13) Methyläther d. 4-Oxy-1-Amidomethylbenzol (B. 36, 371 C. 1903 [1] 577).
 - *44) 4-Dimethylamido-1-Oxybenzol. Sm. 75° (A. 334, 309 C. 1904 [2] 986).
 - *22) Aethyläther_d. 4-Amido-1-Oxybenzol. Sd. 120—122% (B. 36, 4102 Anm. C. 1904 [1] 271; C. r. 138, 1038 C. 1904 [1] 1490; B. 36, 2966
 - C. 1903 [2] 1007).

 *40) 4-Keto-1,2,6-Trimethyl-1,4-Dihydropyridin + 3H₂0. Sm. 110°
 (A. 331, 256 C. 1904 [1] 1223).
 - *45) 4-Imido-1-Oxy-1,3-Dimethyl-1,4-Dihydrobenzol. HCl (B. 35, 3889) C. 1903 [1] 26).
 - 55) β -Amido- α -Oxy- α -Phenyläthan. (2HCl, PtCl₄), Pikrat (B. 37, 2483 C. 1904 [2] 420).
 - 56) 2-Methyl-6-[β-Oxyäthyl] pyridin. Fl. (2HCl, PtCl₄), (HCl, AuCl₃) (B. 36, 2907 C. 1903 [2] 890).
- C₈H₁₁ON₈ *16) α-Amido-α-Benzylharnstoff. Sm. 127—128° (B. 37, 2325 C. 1904 [2] 312).
 - 19) α -Amido- α -Methyl- β -Phenylharnstoff. Sm. 93-94° (B. 37, 2324) C. 1904 [2] 312).
 - 20) 3-Methylphenylamidoharnstoff (Maretin). Sm. 183–184° (C. 1904) [2] 359).
 - 21) 1-Acetylamido-2,4-Diamidobenzol. Sm. 158—159° (D.R.P. 151204 C. 1904 [1] 1382).
 - 22) α -Oximido- α -Amido- α -Methylphenylamidomethan (uus-Methylphenylharnstoffoxim). Sm. 102°. HCl, Pikrat (B. 36, 3661 C. 1903 [2] 1324).

23) α -Oximido- α -Amido- β -Phenylamidoäthan. Sm. 147—148° (B. 36, C,H,ON, 4304 C. 1904 [1] 447).
24) Inn. Anhydrid d. 2 - Semicarbazon -1 - Oxymethylenhexahydrobenzol. Sm. 183-185° (und 220°) (A. 329, 117 C. 1903 [2] 1322). 25) Inn. Anhydrid d. 3-Semicarbazon-4-Oxymethylen-1-Methyl-R-Pentamethylen. Sm. 115-1160 (A. 329, 116 C. 1903 [2] 1322). *1) Chlorid d. α -Heptin- α -Carbonsäure. Sd. 84,5-87 $\frac{6}{13}$ (Bl. [3] 29, C₈H₁₁QCl 656 C. 1903 [2] 487). 3) 6-Chlor-4-Keto-2, 2-Dimethyl-1, 2, 3, 4-Tetrahydrobenzol. Sd. 1090, 14 (Soc. 83, 117 C. 1903 [1] 230, 448). 1) 6-Brom-4-Keto-2, 2-Dimethyl-1, 2, 3, 4-Tetrahydrobenzol. Sd. 1290 as $C_8H_{11}OBr$ (Soc. 83, 120 C. 1903 [1] 231, 448). *2) 3-Methyläther d. 6-Amido-3,5-Dioxy-1-Methylbenzol. HCl (B. 36, $C_8H_{11}O_2N$ 891 C. 1903 [1] 966). *0) 1-Aethyläther d. 4-Amido-1, 3-Dioxybenzol. HCl (J. pr. [2] 70, 325 G. 1904 [2] 1541). *22) 2- $[\beta\beta'$ -Dioxyisopropyl] pyridin. Sm. 78°. (HCl, 6HgCl₂), (2HCl, PtCl₄), (HCl, AuCl₃), Pikrat (B. 37, 738 C. 1904 [1] 1089). 25) 3-Methyläther d. 2-Amido-3,5-Dioxy-1-Methylbenzol. HCl (B. 36, 893 C. 1903 [1] 966). 26) 1-Methyläther d. 5-Amido-2-Oxy-1-Oxymethylbenzol. Sm. 124 bis 126° (D.R.P. 148977 C. 1904 [1] 699). 27) 4-Aethyläther d. 4-Oxyphenylhydroxylamin. Sm. 91,5-92° (B. 37, 45 C. 1904 [1] 654). 28) 1,2,5-Trimethylpyrrol-3-Carbonsäure. Zers. bei 1750 (C. 1903 [2] 29) Methylester d. 2,5-Dimethylpyrrol-3-Carbonsäure. Sm. 119,5°; Sd. 170°₁₅ (B. 37, 2196 C. 1904 [2] 240).
 30) Imid d. β-Hexen-βγ-Dicarbonsäure. Sm. 56—57° (B. 37, 2472 C. 1904). [2] 306). 31) Imid d. δ -Methyl- β -Penten- $\beta\gamma$ -Dicarbonsäure. Sm. 44—45° (B. 37, 2473 *C*. 1904 [2] 306). 32) Imid einer Säure $C_8H_{12}O_4$ (aus Hämopyrrol). Sm. 63-64° (B. 37, 2472 C. 1904 [2] 306). 10) 4-Nitro-1, 2-Di[Methylamido]benzol. Sm. 172° (B. 36, 3969 C. 1904 $C_8H_{11}O_2N_3$ [1] 177).11) 4-Dimethylamidophenylnitrosohydroxylamin. Ba + 2H₂O (G. 34) [2] 74 *C.* 1904 [2] 734). 24) trans-4-Cyan-4-Oxyhexahydrobenzol-1-Carbonsäure. Sm. 140° (Soc. $C_8H_{11}O_8N$ 85, 434 C. 1904 [1] 1082, 1440). $C_8H_{11}O_8P$ 10) Methylphenylcarbinolunterphosphorigesäure. Sm. 70° (85°). Pb (C. r. 137, 125 C. 1903 [2] 554; C. 1904 [2] 1708). γ-Cyan-β-Methylbutan-αγ-Dicarbonsaure. Sm. 132—133°. K₂ (Soc. 83, 356 C. 1903 [1] 389, 1122). $C_8H_{11}O_4N$ $C_8H_{11}O_4P$ 3) Oxyphosphinsäure (aus d. Säure C₈H₁₁O₉P). Sm. 170°. HBr (C. r. 137, 125 C. 1903 [2] 554). 4) Säure (aus Benzaldehyd). Sm. 154° (C. r. 138, 1709 C. 1904 [2] 423). $C_8H_{11}O_5Br$ *2) Diäthylester d. Bromoxalessigsäure. Sd. $140-145^{\circ}_{11}$ (B. 36, 1732) C. 1903 [2] 38). *1) Diäthylester d. Oxalaminsäure. Sm. 71—72°; Sd. 190°_{12—13} (B. 37, C₈H₁₁O₆N 3679 C. 1904 [2] 1495). $C_8H_{11}O_6P$ 1) 4-Methoxylbenzaldehydphosphorsäure (Ch. Z. 25, 1135). — *III, 59. Urobromalsäure (C. 1903 [1] 781).
 C 34,6 — H 4,0 — O 46,2 — N 15,2 — M. G. 277.
 Dimethyläther d. Nitrodioxydichinolnitrosäure. Na₂ (Am. 29, 115) $C_8H_{11}O_7Br_8$ $C_8H_{11}O_8N_8$ C. 1903 [1] 709). C,H,NS *4) Methyläther d. 4-Merkapto-2, 6-Dimethylpyridin. Sm. 51°; Sd. 233° (A. 331, 259 C. 1904 [1] 1223). 5) 4-Thiocarbonyl-1, 2, 6-Trimethyl-1, 4-Dihydropyridin. Sm. 267 bis 268°. HCl (A. 331, 256 C. 1904 [1] 1223).
1) 1,2,6-Trimethylselenopyrintrioxyd. Sm. 268° (A. 331, 261 C. 1904 $C_8H_{11}NSe$

2) Methyläther d. 4-Seleno-2,6-Dimethylpyridin. Sm. 70°. HCl,

(2HCl, PtCl₄) (A. 331, 263 C. 1904 [1] 1223).

[1] 1223).

- CoH, NoCl 3) 4-Chlor-1, 2-Di[Methylamido] benzol. Sm. 61° (B. 37, 557 C. 1904
- $C_8H_{11}N_8S$ *1) α -Amido- α -Methyl- β -Phenylthioharnstoff (B. 37, 2321 C. 1904 [2] 311). *3) α -Amido- α -Phenyl- β -Methylthioharnstoff. Sm. 91°. HCl (B. 37. 2331 C. 1904 [2] 314).
 - 8) 3[oder 5]-Amido-4[oder 2]-Methylphenylthioharnstoff. Sm. 1070 (D.R.P. 152027 C. 1904 [2] 274).
- 24) Nitril d. δ-Oxy-β-Methylpentan-βδ-Dicarbonsäure. Sm. 165—166°
 (Soc. 85, 1223 C. 1904 [2] 1108). C8H19ON
- 2) 4-Semicarbazido-2,6-Dimethylpyridin. C8H12ON4 Sm. 268-269° u. Zers. (2HCl, PtCl₄) (B. 36, 1117 C. 1903 [1] 1185).
- C₈H₁₂O₂N₂ *16) 3-Methyl-5-Propylpyrazol-4-Carbonsäure. Sm. 228° u. Zers. (Bl.
 - [3] 27, 1099 C. 1903 [1] 227).
 17) 2-Methyläther d. 2, 6-Dioxy-4-Methyl-5-Aethyl-1, 3-Diazin. Sm. 210°. HCl (C. 1904 [2] 30).
 18) Inn. Anhydrid d. i-α-[2-Pyrroloylamido] propionsäure (Prolylalanin-1904 [2] 240.
 - anhydrid). Sm. 126-129° (B. 37, 2847 C. 1904 [2] 644).
 - 19) Nitril d. Oxyessig-[β-Cyan-α-Aethoxylpropyl] athersaure. Sm. 121°
 - (C. 1904 [1] 159).
 20) Methylester d. α-Cyan-β-Aethylamidopropen-α-Carbonsäure. Sm. 73° (Bl. [3] 31, 341 C. 1904 [1] 1135).
 - 21) Verbindung (aus d. Säure $C_0H_{12}O_4N_2) = (C_8H_{12}O_2N_2)_x$ (C. 1904 [1] 159).
- 5) 3,5-Di[α -Oximidoäthyl]-4-Methylpyrazol $+ \frac{1}{6}$ H₀O. Sm. 2170 (A. $C_8H_{12}O_2N_4$
- 325, 186 C. 1903 [1] 647).
 bim. Aethyläther d. ββ-Dichlor-α-Oxyäthan. Sd. 187-192°₃₀ (G. 33 [2] 385 C. 1904 [1] 921). C,H,O,C14
- 4) 1,2-Dibrom-1-Methylhexahydrobenzol-4-Carbonsäure. Sm. 1040 C₈H₁₂O₂Br₂ Soc. 85, 665 C. 1904 [2] 330).
- *2) 2,4,6-Triketo-5,5-Diäthylhexahydro-1,3-Diazin. Sm. 1910 (D.R.P. C8H12O8N2 146 496 C. 1903 [2] 1483; D. R. P. 146 449 C. 1904 [1] 68; D. R. P. 147 278 C. 1904 [1] 68; D. R. P. 147 279 C. 1904 [1] 68).
 *2) 2,4,6-Triketo-5,5-Diäthylhexahydro-1,3-Diazin (Diäthylmalonyl
 - harnstoff; Veronal). Sm. 191°. Na (C. 1903 [1] 1155; D.R.P. 144432 C. 1903 [2] 778; Ar. 242, 401 C. 1904 [2] 1005; A. 335, 338 C. 1904 [2] 1380).
 - 11) 2,4,6-Triketo-5-Methyl-5-Propylhexahydro-1,3-Diazin. Sm. 182° (D.R.P. 146496 C. 1903 [2] 1484; A. 335, 344 C. 1904 [2] 1381).
- 4) 5-Oximido-6-Imido-2,4-Diketo-1,3-Diathylhexahydro-1,3-Diazin C.H.O.N. ⊢ H₀O (*C.* **1904** [2] 1497). *1) Tetraacetylhydrazin. Sm. 85°; Sd. 141°, (J. pr. [2] 69, 148 C. 1904 $C_8H_{12}O_4N_2$
 - 1] 1274). *5) Diäthylester d. Diazobernsteinsäure. Fl. (B. 37, 1264 C. 1904 [1]
 - 1333). 8) α -Amid d. α -Imido- γ -Ketobutan- $\alpha\beta$ -Dicarbonsäure- β -Aethylester. Sm. 142° (A. 332, 134 C. 1904 [2] 190).
- C 37,5 H 4,7 O 25,0 N 32,8 M. G. 256. $C_8H_{12}O_4N_6$ 1) Amid d. Diazoacetyldi Amidoacetyl amidoessigsäure. Sm. 240°
- u. Zers. (B. 37, 1296 C. 1904 [1] 1336).
- C₈H₁₂O₄Br₂ 10) cis- γ δ-Dibrom- β -Methylpentan- β δ-Dicarbonsäure. Sm. 168° u. Zers. (Soc. 85, 158 C. 1904 [1] 720). 11) trans- γ δ-Dibrom- β -Methylpentan- β δ-Dicarbonsäure. Sm. 205—207° (Soc. 83, 779 C. 1903 [2] 191, 423).
- 2) 1-Nitrosocincholoiponsäure. Sm. 173-174° (B. 30, 1333). - $C_8H_{12}O_5N_2$ *III, 635.
- C 35,3 H 4,4 O 29,4 N 30,9 M. G. 272.

 1) Azid d. Oxyacetyldi[Amidoacetyl]amidoessigsäure. Sm. 79—80°
 (B. 37, 1297 C. 1904 [1] 1336). $C_8H_{12}O_5N_6$
- *6) Diäthylester d. Oxalyldi [Amidoameisensäure]. Sm. 1730 (B. 36, 746 $C_8H_{12}O_6N_2$ C. 1903 [1] 827).
 - 9) Aethylenester d. Acetylamidoameisensäure. Sm. 1740 (B. 36, 3217 C. 1903 [2] 1056).
- 2) Methylester d. δ_{ε} -Dinitro- γ -Keto- β -Methylpentan- β -Carbonsäure. $C_8H_{12}O_7N_2$ Sm. 142—143° (Soc. 83, 1238 C. 1903 [2] 1420).

 $C_8H_{18}O_4N$

 $C_8H_{13}O_5N$ C8 H13 O6 N

C₈H₁₈O₇N

 $C_8H_{18}O_8N$

C₈H₁₈N₂J

 $C_8H_{14}ON_9$

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C 36.4 - H 4.5 - O 48.5 - N 10.6 - M. G. 264.
 C,H,O,N,
                     1) \beta \gamma-Diamidobutan - \alpha \alpha \delta \delta-Tetracarbonsäure. 
C. 1903 [1] 135).
                                                                                             Ag<sub>2</sub> (B. 35, 4124
                   *1) Diäthylester d. Dinitroweinsäuro. Sm. 27° (Soc. 83, 161 C. 1903)
 C_{8}H_{12}O_{10}N_{2}
                         [1] 627).
                   26) 5-Amylisoxazol. Sd. 87—87,5^{\circ}_{14} (C. r. 138, 1341 C. 1904 [2] 187). 27) Amid d. \alpha-Heptin-\alpha-Carbonsäure. Sm. 91—92^{\circ} (C. r. 136, 553
 C<sub>8</sub>H<sub>13</sub>ON
                         C. 1903 [1] 824).
 C_8H_{13}ON_8
                   *1) 1-Semicarbazon-5-Methyl-1,2,3,4-Tetrahydrobenzol. Sm. 194—1950
                        (A. 329, 375 C. 1904 [1] 517).
                     3) 4-Semicarbazon-5-Methyl-1, 2, 3, 4-Tetrahydrobenzol. Sm. 211—2120
                        (A. 329, 374 C. 1904 [1] 517).
                     4) 3-Semicarbazon-1-Methyl-?-,Tetrahydrobenzol.
                                                                                                   Sm. 207-208°
                        (C. 1903 [1] 329).
                    5) Amid d. 3-Methyl-5-Propylpyrazol-1-Carbonsäure (oder A. d.
                        5-Methyl-3-Propylpyrazol-1-Carbonsaure).
                                                                               Sm. 95° (Bl. [3] 27, 1088
                         C. 1903 [1] 226).

    Verbindung (aus α-Camphylsäure). Sd. 155—160° u. Zers. (Soc. 83, 859 C. 1903 [2] 573).

 C<sub>8</sub>H<sub>18</sub>OBr<sub>8</sub>
 C_8H_{13}O_2N
                  24) Verbindung (aus Dimethylamin u. 1,2-Dioxybenzol). (D.R.P. 141101 C. 1903 [1] 1058).
                                                                                                           Sm. 115°
                  25) Verbindung (aus Dimethylamin u. 1,3-Dioxybenzol). Sm. 82° (D.R.P. 141101 C. 1903 [1] 1058).
                  26) Verbindung (aus Dimethylamin u. 1,4-Dioxybenzol). Sm. 132° (D.R.P. 141101 C. 1903 [1] 1058). C 52,4 — H 7,1 — O 17,5 — N 23,0 — M. G. 183.
C_8H_{18}O_2N_8
                    1) 6-Imido-2,4-Diketo-1,3-Diäthylhexahydro-1,3-Diazin. Sm. 137°. HCl. H<sub>8</sub>PO<sub>4</sub> (C. 1904 [2] 1497).
2) 2-Imido-4,6-Diketo-5,5-Diäthylhexahydro-1,3-Diazin (A. 335, 352)
                        C. 1904 [2] 1381).
CsH, OsBr
                  10) \beta-Brom-\varepsilon-Methyl-\beta-Hexen-\alpha-Carbonsäure. Sm. 14—15° (A. 331, 147)

    C. 1904 [1] 933).
    11) 1-Brom-I-Methylhexahydrobenzol-4-Carbonsäure. Sm. 126° (Soc.

                       85, 663 C. 1904 [2] 330).
                  12) 5-Brom-1, I-Dimethyl-R-Pentamethylen-2-Carbonsäure. Fl. (Soc.
                  85, 142 C. 1904 [1] 728).
*4) Mesitylsäure (Soc. 85, 1224 C. 1904 [2] 1108).
C_8H_{13}O_8N
                *11) Methylester d. 1-5-Keto-1-Methyltetrahydropyrrol-2-Methylcar-
                  bonsäure (M. d. l-Ecgoninsäure). Sd. 159°<sub>18,6</sub> (A. 326, 90 C. 1903 [1] 842).

12) 5-Oximido-1,1-Dimethyl-R-Pentamethylen-2-Carbonsäure. Sm. 195° (Soc. 85, 139 C. 1904 [1] 728).

13) Methylester d. r-5-Keto-1-Methyltetrahydropyrrol-2-Methylcar-
                  bonsäure. Sd. 165—170°<sub>19</sub> (A. 326, 89 C. 1903 [1] 842).
14) Verbindung (aus Dimethylamin u. 1,2,3-Trioxybenzol). Sm. 163° (D. R. P.
                       141101 C. 1903 [1] 1058).
C_8H_{13}O_3N_3
                   8) 4-Semicarbazonhexahydrobenzol-1-Carbonsäure. Zers. bei 200°
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 Verbindung (aus α-Dicyanacetessigsäureäthylester). Zers. bei 209—211°
 (A. 332, 134 C. 1904 [2] 190). 14) Methylester d. α -Butyroximidopropionsäure. Sd. 153—155 $^{o}_{16}$ (Bl.

Verbindung (aus Dimethylamin u. 3,4,5-Trioxybenzol-1-Carbonsäure) (D.R.P. 141101 C. 1903 [1] 1058).

2) Diäthylester d. α-Nitroäthan-αα-Dicarbonsäure (C. 1903 [2] 343). *1) Nitrat d. 1- α -Oxyäthan- $\alpha\beta$ -Dicarbonsäurediäthylester. Sd. 148 bis

151°₂₆ (B. 35, 4364 C. 1903 [1] 321). C 38,2 — H 5,2 — O 41,0 — N 5,6 — M. G. 251. 1) Diäthylester d. Mononitroweinsäure. Sm. 46—47° (45—46°) (B. 3,

[2] 716).
*5) 5-Keto-3-Amyl-4,5-Dihydropyrazol. Sm. 195° (C. r. 136, 755 C.

1903 [1] 1019; Bl. [3] 27, 1092 C. 1903 [1] 226).

533; A. ch. [4] 28, 428; Soc. 83, 163 C. 1903 [1] 627; B. 35, 4366 C. 1903 [1] 321; B. 36, 780 C. 1903 [1] 826). — I, 796. *3) Jodmethylat d. s-Methylphenylhydrazin (C. r. 137, 330 C. 1903

(Soc. 85, 427 C. 1904 [1] 1439).

[3] 31, 1070 C. 1904 [2] 1457).

C8H14ON2 *6) 5-Keto-4-Aethyl-3-Propyl-4,5-Dihydropyrazol. Sm. 165-166° (Bl. [3] 31, 593 C. 1904 [2] 26). 9) 5-Keto-3-Methyl-4-Isobutyl-4,5-Dihydropyrazol. Sm. 237° (Bl. [3] **31**, 761 *C*. **1904** [2] 343). 10) 2,5-Dipropyl-1,3,4-Oxdiazol. Sd. 227° (J. pr. [2] 69, 491 C. 1904 [2] 599). 11) 2,5-Diisopropyl-1,3,4-Oxdiazol. Sd. 209° (J. pr. [2] 69, 500 C. 1904 [2] 600). 12) Amid d. ε-Cyan-β-Methylpentan-ε-Carbonsäure. Sm. 142,5° (C. 1903 [2] 193). $C_8H_{14}O_2N_2$ 13) Monomethylacetylhydrazon d. $\beta\gamma$ -Diketopentan. Sm. 47° (B. 36, 3189 C. 1903 [2] 939). 14) Aethylester d. α-Diazopentan-α-Carbonsäure. Sd. 70-73° (B. 37, 1275 *C.* **1904** [1] 1334). 6) 5, 6-Diamido-2, 4-Diketo-1, 3-Diäthyl-1, 2, 3, 4-Tetrahydro-1, 3- $C_8H_{14}O_2N_4$ Diazin (C. 1904 [2] 1497). $C_8H_{14}O_3N_2$ 4) i-α-[2-Pyrroloylamido|propionsäure (Prolylalamin). Sm. 225—230° (B. 37, 2845 C. 1904 [2] 644). 5) Methylamid d. β -Imidopropan- $\alpha\alpha$ -Dicarbonsäuremonoäthylester. Sm. 124—126° (A. 329, 347 C. 1904 [1] 435). Methylmonamid d. 1-Methyltetrahydropyrrol-2,2-Dicarbonsäure. Sm. 137° u. Zers. (A. 326, 113 C. 1903 [1] 843). 1) Diäthyläther d. Di[$\beta\beta$ -Dichlor- α -Oxyäthyl]äther. Sd. 183—188° (G. 33 [2] 405 C. 1904 [1] 922). $C_8H_{14}O_8Cl_4$ 7) Diäthylester d. bim. Methylenamidoameisensäure (Anhydroformal- $C_8H_{14}O_4N_9$ 28 207 C. 1903 [2] 423; B. 36, 40 C. 1903 [1] 502).

8) Monoureïd d. Pentan-γγ-Dicarbonsäure. Sm. 162° u. Zers. (D.R.P. 144431 C. 1903 [2] 813; A. 335, 362 C. 1904 [2] 1382). $C_8H_{14}O_4S$ 6) 5-Keto-1,3-Dimethylhexahydrobenzol-1-Sulfonsäure. Na (B. 37. 4041 C. 1904 [2] 1647). $C_8H_{14}O_5N_2$ 3) N-Aethylester d. a-Carboxylamidoacetylamidopropionsäure (Carbäthoxylglycylalanin'. Sm. 187,5—188,5° (B. 36, 2111 C. 1903 [2] 345; B. 37, 2191 C. 1904 [2] 424). C₈H₁₄O₅N₄ C 39,0 — H 5,7 — O 32,5 — N 12,8 — M. G. 246. Tri[Amidoacetyl]amidoessigsäure. Zers. oberh. 220°. Cu + H₂O
 (B. 37, 1294 C. 1904 [1] 1336; B. 37, 2502 C. 1904 [2] 426).
 Bromtropan (Tropidinhydrobromid). Sd. 109—109,5°_{17,5}. (2HCl, PtCl₄), $C_8H_{14}NBr$ (HCl, AuCl₃), HBr (A. 326, 31 C. 1903 [1] 778).

2) Jodtropan. HJ (A. 326, 30 C. 1903 [1] 778).

5) 2,5-Dipropyl-1,3,4-Thiodiazol. Sd. 127°₁₃ (J. pr. [2] 69, 492 C. $C_8H_{14}NJ$ C₈H₁₄N₂S 1904 [2] 600). 6) 2,5-Diisopropyl-1,3,4-Thiodiazol. Sd. 126°₂₇ (J. pr. [2] 69, 502 C. **1904** [2] 600). *22) Tropin (A. 326, 23 C. 1903 [1] 778). *27) Pseudotropin. Sm. 108—109°; Sd. 240—241°. Pikrat (A. 326, 36 $C_8H_{15}ON$ C. 1903 [1] 779). 47) 3-Methylamido-1-Oxy-2,3,4,5-Tetrahydro-R-Hepten. Sm. 103 bis 104° (A. 326, 22 C. 1903 [1] 778). 48) r-5-Oximido-1,1,2-Trimethyl-R-Pentamethylen. Sm. 105° (C. r. 136, 1143 C. 1903 [1] 1410).
49) 2-Oximido-1,1,3-Trimethyl-R-Pentamethylen. Sm. 60—62° (A. 329, 95 C. 1903 [2] 1071). 50) Oxim d. Verbindung C₈H₁₄O (aus αγ-Dioxybutan). Sd. 180° (M. 25, 9 C. **1904** [1] 716). 51) Anhydrid d. i-Amidolauronsäure. Sm. 2090 (Am. 28, 485 C. 1903) [1] 329). *2) 2-Semicarbazon-1-Methylhexahydrobenzol. Sm. 191-1920 (A. 329, C₈H₁₅ON₈

11) Semicarbazonmethylhexahydrobenzol. Sm. 176° (Bl. [3] 29, 1050

12) Isopropylidenhydrazid d. Isopropylidenamidoessigsäure. Sm. 79°

376 *C.* **1904** [1] 517).

(J. pr. [2] 70, 104 C. 1904 [2] 1036).

C. 1903 [2] 1437).

2) Aethyläther d. 2-Jod-1-Oxyhexahydrobenzol. Sd. 118047 (C. r. 135. CaH,sOJ 1057 C. 1903 [1] 233). $C_9H_{15}O_9N$ y-Oximido-β-Ketooktan. Sm. 54°; Sd. 133°₁₁ (Bl. [3] 31, 1167 C. 1904 27 1700). *5) β-Oximido-γ-Ketooktan. Sm. 39°; Sd. 139°₁₆ (Bl. [3] 31, 1168 C. 1904 [2] 1700). *21) Imid d. Isobuttersäure. Sm. 173—174° (C. r. 137, 129 C. 1903 [2] 32) ε-Oximido-δ-Ketooktan. Sd. 117—1200₁₂ (Bl. [3] 31, 1166 C. 1904 [2] 1700). 33) γ -Oximido- δ -Keto- β -Methylheptan. Sd. 115—119 $^{0}_{14}$ (Bl. [3] 31, 1166) C. 1904 [2] 1700). 34) ε -Oximido- δ -Keto- β -Methylheptan. Sm. 38-39°; Sd. 117-118°, (Bl. [3] 31, 1166 C. 1904 [2] 1700). 35) Methylbetain d. Hexahydropyridin-N-Methylcarbonsäure. Sm. 116—118°. (HCl, AuCl₂) (B. 36, 4193 C. 1904 [1] 263).

Aethylester d. 1-Methyltetrahydropyrrol-2-Carbonsäure. Sd. 75 bis 76°₁₂. (HCl, AuCl₃) (A. 326, 126 C. 1903 [1] 844). 37) Gem. Imid d. Propionsäure u. Isovaleriansäure. Sm. 68° (C. r. 137, 326 C. 1903 [2] 712). 38) Gem. Imid d. Buttersäure u. Isobuttersäure. Sm. 1030 (C. r. 137, 326 C. 1903 [2] 712). Aethylester d. α-Acetylamidoisobuttersäure. Sm. 87,5° (B. 37, 1923) C_SH₁₅O_SN C. 1904 [2] 196). 13) Aethylester d. δ-Oximido-β-Methylbutan-δ-Carbonsäure. Sm. 60°; Sd. 142°₁₂ (Bl. [3] 31, 1073 C. 1904 [2] 1457).
 14) Aethylester d. 2-Methylbutan-δ-Carbonsäure.
 14) Aethylester d. 2-Methylbutan-δ-Carbonsäure. Sm. 31-32° (B. 36, 1283 C. 1903 [1] 1216). C₈H₁₅O₈N₉ 8) s-Semicarbazonhexan-α-Carbonsaure. Sm. 144-146° (A. 329, 377 C. 1904 [1] 517). 9) δ -Semicarbazon- β -Methylpentan- β -Carbonsäure. Sm. 185—186° u. Zers. (197°) (4. 329, 99 C. 1903 [2] 1071; Soc. 85, 1220 C. 1904 [2] ε-Semicarbazon-β-Methylpentan-ε-Carbonsäure. Sm. 205,5° (Bl. [3]) 31, 1152 C. 1904 [2] 1707).
 11) Aethylester d. α-Semicarbazonbutan-α-Carbonsäure. Sm. 139—140° (Bl. [3] 31, 1150 C. 1904 [2] 1706). 12) Aethylester d. α -Semicarbazon- β -Methylpropan- β -Carbonsäure. Sd. 163—164°₇₄₈ (Bl. [3] 31, 163 C. 1904 [1] 869).

13) Aethylester d. β-Amidoacetylhydrazonbuttersäure. Sm. 290° n. Zers. (J. pr. [2] 70, 105 C. 1904 [2] 1036). 14) Isobutylester d. α-Semicarbazonvaleriansäure. Sm. 137—138° (Bl. [3] 31, 1073 C. 1904 [2] 1457). 15) Butyrat d. β-Semicarbazon-α-Oxypropan. Sm. 82-83° (C. r. 138, 1275 C. 1904 [2] 93). 3) Aethylester d. Amidoacetylamidoacetylamidoessigsäure. IICl (B. C₈H₁₅O₄N₃ 36, 2984 C. 1903 [2] 1111). 4) Amid d. α-Carbäthoxylamidoacetylamidopropionsäure (Carbäthoxylglycylalaninamid). Sm. 136,5—137,5° (B. 36, 2111 C. 1903 |2| 345). 3) Dimethylester d. Diäthylhydroxylamin- $\beta\beta'$ -Dicarbonsäure. I C8H15O5N HCl, Oxalat (B. 37, 255 C. 1904 [1] 642). C 36,8 — H 5,7 — O 30,6 — N 26,8 — M. G. 261. C₈H₁₅O₅N₅ δ-Semicarbazon-es-Dinitro-β-Methylhexan. Sm. 148-149ⁿ u. Zers. (G. 34 [1] 412 C. 1904 [2] 304). 2) α-Rhodanheptan. Sd. 234—236° (C. 1903 [1] 961). C₈H₁₅NS 3) Jodmethylat d. Hexahydropyridin-N-Methylcarbonsäurenitril. Sm. $C_8H_{15}N_9J$ 192-193° (B. 36, 4193 C. 1904 [1] 263). C₈H₁₆ON, '15) 1-Nitroso-2-Methyl-5-Isopropyltetrahydropyrrol. (C. 1903 [2] 1324). C₈H₁₆O₂N₂ *2) $\beta \gamma$ -Dioximidooktan. Sm. 173° (Bl. [3] 31, 1167 C. 1904 [2] 1700).
*23) $\delta \epsilon$ -Dioximidooktan. Sm. 186—187° (Bl. [3] 31, 1175 C. 1904 [2] 1701).
*24) s-Dibutyrylhydrazin. Sm. 168°; Sd. 214°₂₄ (J. pr. [2] 69, 489 25) αδ-Di[Acetylamido] butan. Sm. 137° (B. 36, 337 C. 1903 [1] 703).

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\mathbf{C}_{8}\mathbf{H}_{16}\mathbf{O}_{2}\mathbf{N}_{2}
                    26) \alpha \alpha-Di[Acetylamido]-\beta-Methylpropan. Sm. 216° u. Zers. (M. 25, 967)
                           C. 1904 [2] 1598).
                    27) \delta s-Dioximido-\beta-Methylheptan. Sm. 166—167° (Bl. [3] 31, 1167
                           C. 1904 [2] 1700).
                    28) s-Diisobutyrylhydrazin. Sm. 239° (J. pr. [2] 69, 499 C. 1904 [2] 600).
C_8H_{18}O_9N_4
                      5) s-Oximido-\delta-Semicarbazon-\beta-Methylhexan. Sm. 203° u. Zers. (G. 34)
                          [1] 411 C. 1904 [2] 304).
Di[4-Morpholyl]tetrazon. Sm. 152° (B. 35, 4477 C. 1903 [1] 404).
                      2) Dipropyläther d. \beta\beta-Dichlor-\alpha\alpha-Dioxyäthan. Sd. 212—214 ^{5} (G. 33 [2] 419 C. 1904 [1] 922).
C<sub>8</sub>H<sub>18</sub>O<sub>2</sub>Cl<sub>2</sub>
C_8H_{16}O_4N_2
                    15) Aethylamid d. d-Weinsäure. Sm. 210-211 ° (Soc. 83, 1361 C, 1904
                          [1] 84).

    2) Hydrazid d. Tri[Amidoacetyl]amidoessigsäure. Sm. noch nicht bei 300°. 2 HCl (B. 37, 1297 C. 1904 [1] 1336).
    C 40,7 — H 6,8 — O 40,7 — N 11,8 — M. G. 236.

C<sub>8</sub>H<sub>16</sub>O<sub>4</sub>N<sub>6</sub>
C8H16O6N2

    Methylglykoseureïd. Sm. 126° u. Zers. (R. 22, 64 C. 1903 [1] 1080).
    Diamidodioxykorksäure. Sm. 243° (248-249° u. Zers.) (B. 37, 159° C. 1904 [1] 1449; H. 42, 293 C. 1904 [2] 959).
    Ξ=[β-Jodpropyl]hexahydropyridin. Fl. HJ (B. 37, 1888 C. 1904 [2] 959).

C<sub>8</sub>H<sub>16</sub>NJ
                          [2] [238).
C, H, N, S
                      8) \alpha-Allyl-\beta-[d-sec. Butyl]thioharnstoff. Sm. 31,5—32° (Ar. 242, 61
                           C. 1904 [1] 998).
                    *5) β-Dimethylamido-δ-Keto-β-Methylpentan (M. 24, 774 C. 1904 [1] 158).

*9) β-Oximidooktan. Sd. 116,5°<sub>15</sub> (C. r. 136, 755 C. 1903 [1] 1019;

Bl. [3] 29, 675 C. 1903 [2] 487).
C<sub>8</sub>H<sub>17</sub>ON
                   *39) 3-Oxy-2,2,5,5-Tetramethyltetrahydropyrrol (B. 36, 3367 C. 1903)
                          [2] 1186).
                    40) \alpha-Oximidooktan. Sm. 58—59° (C. r. 138, 699 C. 1904 [1] 1066). 41) \delta-Oximidomethylheptan. Sd. 126°_{47} (Bl. [3] 31, 306 C. 1904 [1] 1133). 42) 3, 4, 4, 6-Tetramethyltetrahydro-1, 3-Oxazin. Sd. 166—168°. (2HCl,
                     PtCl<sub>4</sub>), (HCl, AuCl<sub>3</sub>), Pikrat (M. 25, 835 C. 1904 [2] 1240).
8) \gamma-Semicarbazon-\beta5-Dimethylpentan. Sm. 150—151° (Bl. [3] 31, 114
C<sub>8</sub>H<sub>17</sub>ON<sub>8</sub>
                     C. 1904 [1] 643).
2) \alpha-Chlor-\beta-Oxy-\betas-Dimethylhexan. Sd. 96^{\circ}_{23} (C. r. 138, 767 C. 1904)
C8H17OCl
                          [1] 1196).

    2) 2-Brommenthon. Fl. (B. 37, 2177 C. 1904 [2] 223).
    3) Verbindung (aus d. Glykol C<sub>8</sub>H<sub>18</sub>O<sub>2</sub>). Sd. 58-60 14 (M. 24, 610 C. 1903)

C_8H_{17}OBr
                          [2] 1235).
                  *9) Nitrit d. \alpha-Oxyoktan. Sd. 174—175° (C. r. 136, 1564 C. 1903 [2] 339). 
*10) Nitrit d. \beta-Oxyoktan. Sd. 65°<sub>15</sub> (C. r. 136, 1564 C. 1903 [2] 339).
C<sub>8</sub>H<sub>17</sub>O<sub>2</sub>N
                  *19) Betain d. Triäthylamidoessigsäure. + AuCl<sub>s</sub> (B. 36, 4191 C. 1904
                          [1] 263).
                  *22) Aethylester d. r-\alpha-Amido-\gamma-Methylvaleriansäure. (Bl. [3] 31, 1180 C. 1904 [2] 1710).
                                                                                                                         Sd. 94°<sub>16</sub>
                  *24) Aethylester d. Isoamylamidoameisensäure. Sd. 122-1230, (B. 36,
                          2476 C. 1903 [2] 559).

32) Betain d. δ-Trimethylamidovaleriansäure + H<sub>2</sub>O. Sm. 126-127° (228° wasserfrei) (B. 37, 1856 C. 1904 [1] 1487).
33) Betain d. α-Methyldiäthylamidopropionsäure. Sm 117-119° (B. 36,

                    4191 C. 1904 [1] 263).
34) Methylester d. 5-Dimethylamidovaleriansäure. Sd. 186—189°. (HCl,
                          AuCl<sub>8</sub>) (B. 37, 1857 C. 1904 [1] 1487).
                    35) Nitrit d. γ-Oxy-γ-Aethylhexan. Sd. 155° (C. r. 136, 1564 C. 1903
                          [2] 339).
                     4) Nitrat d. α-Oxyoktan. Sd. 110-112020 (C. r. 136, 1563 C. 1903 [2]
C<sub>8</sub>H<sub>17</sub>O<sub>8</sub>N
C_8H_{17}NBr_2
                      5) \delta \varepsilon-Dibrom-\beta-Amido-\beta \varepsilon-Dimethylhexan. HBr (B. 36, 3367 C. 1903
                          [2] 1186).
                      4) norm. Heptylamidodithioameisensäure. Sm. 65° (C. 1903 [1] 962).
C8H17NS
                      2) Nitril d. Triäthylchlorammoniumessigsäure. + HgCl<sub>2</sub>, + AuCl<sub>3</sub>
C<sub>8</sub>H<sub>17</sub>N<sub>2</sub>Cl
                          (B. 36, 4190 C. 1904 [1] 263).
                         Nitril d. α-Methyldiäthyljodammoniumpropionsäure. Sm. 195—196°
C_8H_{17}N_2J
                          u. Zers. (192°) (B. 36, 4191 C. 1904 [1] 263; B. 37, 4089 C. 1904 [2]
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*3) Nitril d. Triäthyljodammoniumessigsäure. Sm. 184° (B. 36, 4190

C. 1904 [1] 263). 8) α -Propyl- β -[d-sec. Butyl]harnstoff. Sm. 80° (Ar. 242, 70 C. 1904)

 $C_8H_{17}N_2J$

 $C_8H_{18}ON_2$

C₈H₈O₂NCl₂

C₈H₃O₄NCl₂

 $C_8H_3O_4Cl_2Br$

[1] 999). 9) α -Isopropyl- β -[d-sec. Butyl]harnstoff. Sm. 134° (Ar. 242, 70 C.1904 10) δ -Oximido- β -Dimethylamido- β -Methylpentan. bis 138^{0}_{17} . Oxalat (M. 24, 780 C. 1904 [1] 158). Sm. 46-47; Sd. 136 11) 3, 5-Dimethyltetrahydropyrazol + Aceton. Sm. 68—69° (B. 36, 223 C. 1903 [1] 522). 12) Nitril d. Triäthylammoniumhydroxydessigsäure. HCl, Pikrat (B. 36, 4190 C. 1904 [1] 263). 2) Semicarbazidsemicarbazon d. Mesityloxyd. Sm. 220° (B. 36, 4378 $C_8H_{18}O_2N_6$ C. 1904 [1] 454). *3) Schwefelsäurediisobutylester. Sd. 133—134°₁₈ (Am. 30, 222 C. 1903 C8H18O4S [2] 937). 12) δ -oder - ε -Chlor - β -Amido - $\beta \varepsilon$ -Dimethylhexan. HCl (B. 36, 3366 $C_8H_{18}NC1$ O. 1903 [2] 1186). 3) α -Propyl- β -[d-sec. Butyl]thioharnstoff. Sm. 53 $^{\circ}$ (Ar. 242, 60 C. 1904) $C_8H_{18}N_2S$ [1] 998). 4) a-Isopropyl- β -[d-sec. Butyl]thioharnstoff. Sm. 112—112,5° (Ar. 242, 60 C. 1904 [1] 998). 7) α -Dimethylamido- β -Oxy- β -Methylpentan. Sd. 78°_{35} (C. r. 138, 767) C₈H₁₉ON C. 1904 [1] 1196). 8) β -Dimethylamido- δ -Oxy- β -Methylpentan. Sd. 186—190°. (2 HCl, PtCl₄) (M. **25**, 139 C. **1904** [1] 866). 9) β-Aethylamido-δ-Oxy-β-Methylpentan. Sd. 189—191°. (2HCl, PtCl₄)
 (M. 25, 841 C. 1904 [2] 1240). *1) Methyläthylamylsulfinchlorid. + HgCl₂ (J. pr. [2] 66, 459 C. 1903 C, H, CIS [1] 561). *3) Methylisopropylisobutylsulfinchlorid. + 6 HgCl₂ (J. pr. [2] 66, 462 C. 1903 [1] 561). *2) Tetraäthylammoniumehlorid (J. pr. [2] 66, 472 C. 1903 [1] 561; C₈H₂₀NCl C. 1904 [1] 923). *2) Tetraäthylammoniumjodid. + 2AgJ (B. 36, 142 C. 1903 [1] 500). *2) Tetraäthylammoniumtrijodid. Sm. 143° (C. 1904 [1] 1401). *1) Tetraäthylammoniumheptajodid. Sm. 108° (J. pr. [2] 67, 348 C. 1903 $C_8H_{20}NJ$ C8H20NJ8 C₈H₂₀NJ₇ 1] 1297). 1) Di[Chlormethylat] d. 1,4-Dimethylhexahydro-1,4-Diazin. + 4HgCl₂, $\mathbf{C_8H_{20}N_2Cl_2}$ $2 + PtOl_{*} + 2AuOl_{*} (J. pr. [2] 66, 520 C. 1903 [1] 561; B. 36, 144 C. 1903 [1] 526; B. 37, 3515 C. 1904 [2] 1323).$ *1) Di[Jodmethylat] d. 1,4-Dimethylhexahydro-1,4-Diazin. Zers. bei $\mathbf{C}_{8}\mathbf{H}_{20}\mathbf{N}_{2}\mathbf{J}_{2}$ 300° (*J. pr.* [2] 66, 520 *C.* 1903 [1] 561; *J. pr.* [2] 67, 353 *C.* 1903 [1] 1298; *B.* 37, 3515 *C.* 1904 [2] 1323). 1) Oktojodid d. 1,4-Dimethylhexahydro-1,4-Diazindijodmethylat. Sm. $C_8H_{20}N_2J_{10}$ 120° u. Zers. (J. pr. [2] 67, 353 C. 1903 [1] 1298). 1) Anhydrid d. 3,5-Dichlor-4,6-Dibrombenzol-1,2-Dicarbonsäure. $C_8O_8Cl_2Br_2$ Sm. 248-250° (Soc. 85, 286 C. 1904 [1] 1009). 2) Anhydrid d. Dichlordibrombenzol-1,2-Dicarbonsäure. Sm. 261° (D.R.P. 50117). - *II, 1060. - 8 IV -1) Anhydrid d. 3, 5-Dichlor-4-Brombenzol-1, 2-Dicarbonsäure. Sm. C₈HO₃Cl₂Br 170—171° (Soc. 85, 276 C. 1904 [1] 1009). 1) 3,5-Dichlor-4,6-Dibrombenzol-I,2-Dicarbonsäure. Sm. 240 bis C₈H₂O₄Cl₂Br₂ 241° u. Zers. (Soc. 85, 285 C. 1904 [1] 1009). 7) Imid d. 3,5-Dichlorbenzol-1,2-Dicarbonsäure. Sm. 208° (Soc.

81, 1537 C. 1903 [1] 140).

Ag₂ (Soc. 85, 276 C. 1904 [1] 806, 1009).

1903 [2] 431).

1) Chlorid d. 3-Nitrobenzol-1, 2-Dicarbonsäure. Sm. 76-77° (C.

1) 3,5-Dichlor-4-Brombenzol-1,2-Dicarbonsäure. Sm. 169-170°.

$\mathbf{C_8H_8O_6NCl_2}$	 3,5-Dichlor-4-Nitrobenzol-1,2-Dicarbonsäure. Sm. 165° u. Zers. (Soc. 85, 277 C. 1904 [1] 1009).
$\mathbf{C_8H_8O_6N_2Cl_3}$	1) Trichlordinitrophenylessigsäure. Sm. 190—191°. Ag (Am. 31, 384 C. 1904 [1] 1409).
$\mathbf{C_8H_4ON_2Br_2}$	1) 6,8-Dibrom-4-Keto-3,4-Dihydro-1,3-Benzdiazin. Zers. oberh. 300° (C. 1903 [2] 1194).
$\mathbf{C_8H_4O_2NC1}$	*6) Chlorimid d. Benzol-1, 2-Dicarbonsäure (D.R.P. 139553 C. 1903 [1] 744).
$\mathbf{C}_8^{\boldsymbol{\cdot}}\mathbf{H}_4\mathbf{O}_8\mathbf{NC1}$	4) Chlorformiat d. 4-Oxyphenylisocyanat. Sm. 36—37° (J. pr. [2] 67, 339 C. 1903 [1] 1339).
$\mathrm{C_8H_4O_8N_2S}$	1) Rhodanid d. 3-Nitrobenzol-1-Carbonsäure. Sm. 94° (C. 1904) [1] 1559).
$\mathbf{C_8H_4O_5N_8Cl_8}$	2) Methylnitramid d. 2,4,6-Trichlor-3-Nitrobenzol-1-Carbonsäure. Sm. 118,5° (R. 21, 395 C. 1903 [1] 152).
$C_8H_5ONCl_2$	3) $\alpha\alpha$ -Dichlor- α -Benzoylimidomethan (Benzoylisocyanchlorid). Sd. 146—148 $^{\circ}_{s_1}$ (Am. 32, 371 C. 1904 [2] 1507).
$C_8H_5O_2NS$	*2) Benzthiazol-1-Carbonsaure. Sm. 108° (B. 37, 3731 C. 1904 [2] 1451).
$\mathbf{C_8H_5O_2N_2Br_3^{\cdot}}$	1) 2,4,6-Tribromphenylnitrosamid d. Essigsäure. Sm. 93° (A. 325, 243 C. 1903 [1] 631).
$\mathbf{C_8H_5O_8N_2Cl}$	*1) Nitrii d. 5-Chlor-6-Nitro-2-Oxybenzolmethyläther-1-Carbon- säure (R. 21, 426 C. 1903 [1] 511).
$\mathbf{C_8H_5O_8N_2Cl_8}$	4) Methylamid d. 2,4,6-Trichlor-3-Nitrobenzol-1-Carbonsäure. Sm. 217,25° (R. 21, 390 C. 1903 [1] 152).
$\mathrm{C_8H_5O_4NCl_2}$	2) 3,5-Dichlor-6-Nitro-1-Methylbenzol-2-Carbonsäure. Sm. 187 bis 189° (Soc. 85, 281 C. 1904 [1] 1009).
$\mathbf{C_8H_5O_4N_2Br}$	*1) β-Brom-β-Mitro-α-[4-Nitrophenyl]äthen. Sm. 135° (A. 325, 14 C. 1903 [1] 287).
C_8H_6ONCl	3) Chlormethylanthranil. Sm. 97,5—98°. + 1½ HgCl ₂ (B. 36, 1622 C. 1903 [2] 36).
	4) 4-Chlor-1-Methylbenzoxazol. Sm. 53—54°; Sd. 218—220°. HCl, (2 HCl, PtCl ₄) (Am. 32, 42 C. 1904 [2] 698).
$\mathbf{C_8H_6ONJ_8}$	2) 2,4,5-Trijodphenylamid d. Essigsäure. Sm. 227° (C. r. 137, 1066 C. 1904 [1] 266).
$\mathbf{C_8H_6ON_2S}$	3) Amid d. Benzthiazol-1-Carbonsäure. Sm. 228—230° (B. 37, 3732 C. 1904 [2] 1451).
$C_8H_6O_2NBr \\ C_8H_6O_2NBr_8$	*1) β-Brom-β-Nitro-α-Phenyläthen. Sm. 67° (A. 325, 8 C. 1903 [1] 286). *1) P-Tribromphenylamidoessigsäure. Sm. 200° u. Zers. (B. 37, 834)
3	 C. 1904 [1] 1201). 2,3,6-Tribrom-4-Acetylamido-1-Oxybenzol. Sm. 224° u.
C TT O TT T-	Zers. (Soc. 81, 1478 C. 1903 [1] 23, 144). 1) α -[2,4,6-Tribromphenyl]hydrazon- α -Nitroäthan. Sm. 116—117°
$C_8H_6O_2N_3Br_3$	(B. 36, 3835 C. 1904 [1] 19).
$C_8H_6O_8NBr$	10) α -Brom- α -Nitromethylphenylketon. Sm. 61,5° (A. 325, 13 C. 1903 [1] 287).
$C_{3}H_{6}O_{8}NBr_{8}$	6) Aethyläther d. 4,5,6-Tribrom-2-Nitro-1-Oxybenzol. Sm. 74° (Am. 30, 71 C. 1903 [2] 355).
$\mathbf{C_8H_6O_3N_2Cl_2}$	*7) 2,6-Dichlor-4-Nitrophenylamid d. Essigsäure. Sm. 214—215° (C. 1903 [2] 550).
$C_8H_6O_4NC1$	*14) Methylester d. 5-Chlor-2-Nitrobenzol-1-Carbonsäure (C. 1903
•	*15) Methylester d. 4-Chlor-3-Nitrobenzol-1-Carbonsäure (C. 1903) [2] 1174).
	*16) Methylester d. 6-Chlor-3-Nitrobenzol-1-Carbonsäure (C. 1903 [2] 1174).
	18) Acetat d. 4-Chlor-2-Nitro-1-Oxybenzol (Am. 32, 37 C. 1904 [2] 698).
$\mathbf{C_8H_6O_4NBr_8}$	*2) Dimethyläther d. 4, 5, 6-Tribrom-3-Nitro-1,2-Dioxybenzol. Sm. 116-117° (C. r. 135, 968 C. 1903 [1] 144).
$\mathbf{C_8H_6O_4N_2Cl_2}$	5) 4, 6-Dichlor-3,5-Dinitro-1,2-Dimethylbenzol. Sm. 175—176 (Soc. 85, 284 C. 1904 [1] 1009).
$\mathbf{C_8H_6O_6N_4Br_2}$	1) 4,5-Dibrom-2,6-Dinitro-1-Aethylnitroamidobenzol. Sm. 106° (R. 21, 416 C. 1903 [1] 506).
	(16. 21, ±10 0. 1000 [1] 000).

8 IV.	110
C ₈ H ₆ O ₇ N ₃ Cl	1) Aethyläther d. 3-Chlor-2,4,6-Trinitro-1-Oxybenzol. Sm. 51° (R. 21, 325 C. 1903 [1] 80).
$C_8H_7ONCl_2$	*3) 2,4-Dichlorphenylamid d. Essigsäure. Sm. 140—146° (C. 1903
	*10) 4-Chlorphenylchloramid d. Essigsäure (C. 1903 [1] 22). 13) Methylanthranildichlorid, Sm. 101—101,5° (Ar. 240, 437 C. 1902 [9] 330, R 36, 1621 C. 1903 [2] 36).
$C_8H_7ONJ_2$	*1) 3,5-Dijodphenylamid d. Essigsäure (<i>U. r.</i> 136, 237 <i>U.</i> 1903 [1]
$C_8H_7ONS_2$	1) Gem. Anhydrid d. Benzolcarbonsäure u. Amidodithioameisensäure. Sm. 108—109 (B. 36, 3527 C. 1903 [2] 1326).
$C_8H_7ON_3S$	3) 3 - Merkapto - 5 - Keto - 1 - Phenyl - 4, 5 - Dinydro - 1, 2, 4 - Triazol. Sm. 195°. $K + H_2O$ (B. 36, 3151 C. 1903 [2] 1074; B. 37, 623 C. 1904 [1] 957).
$\mathbf{C_8H_7O_2NBr_2}$	*9) 2,6-Dibrom-4-Acetylamido-1-Oxybenzol. Sm. 185-186° (178 hig 179°) (Sec. 81, 1477 C. 1903 [1] 23, 144).
$C_8H_7O_2NS$	1) 4-Amid d. Benzol-I-Carbonsäure-4-Thiocarbonsaure. Sm. 247° (B. 37, 3222 C. 1904 [2] 1121).
	2) S. Phenylmonamid d. Thiooxalsäure. Sm. 101—102°. Na, Apilipsalz (B. 37, 3713 C. 1904 [2] 1449).
$C_8H_7O_2N_2Br$	4) 4-Bromphenylnitrosamid d. Essigsäure. Zers. bei 88° (A. 325, 242 C. 1903 [1] 631).
$C_8H_7O_2N_2Br_3$	2) 4,5,6-Tribrom-2-Nitro-1-Aethylamidobenzol. Sm. 130° (R. 21, 416 C. 1903 [1] 506).
$C_8H_7O_2N_8Cl_2$	2) 3,5-Dichlor-2-Oxy-1-Semicarbazonmethylbenzol. Sm. 227° u. Zers. (B. 37, 4028 C. 1904 [2] 1718).
	3) 3,5-Dichlor-4-Oxy-1-Semicarbazonmethylbenzol. Sm. 236—237° u. Zers. (B. 37, 4033 C. 1904 [2] 1719).
$C_8H_7O_2N_4Cl_3$	1) 2, 6-Diketo-8-Trichlormethyl-3, 7-Dimethylpurin. Sm. 211—212° (D.R.P. 146714 C. 1903 [2] 1485).
$C_8H_7O_8NBr_2$	*4) Aethyläther d. 2,6-Dibrom-4-Nitro-1-Oxybenzol. Sm. 58-59° (Am. 30, 63 C. 1903 [2] 354).
	7) Aethyläther d. 3, 6 - Dibrom-2-Nitro-1-Oxybenzol. Sm. 45° (Am. 28, 470 C. 1903 [1] 323).
	8) Aethyläther d. 2,5-Dibrom-4-Nitro-1-Oxybenzol. Sm. 126° (Am. 28, 465 C. 1903 [1] 323).
$C_8H_7O_3NS$	*3) Methylimid d. Benzol-I-Carbonsäure-2-Sulfonsäure. Sm. 129° (Am. 30, 278 C. 1903 [2] 1120).
$C_8H_7O_8N_2Cl$	*9) Methylamid d. 4-Chlor-3-Nitrobenzol-1-Carbonsäure (C. 1903 [2] 1174).
	15) Methyläther d. α-Chlorimido-α-Oxy-α-[3-Nitrophenyl]methan. Sm. 86,5-87 (Am. 30, 403 C. 1904 [1] 239).
	16) Methyläther d. isom. α-Chlorimido-α-Oxy-α-[3-Nitrophenyl]-methan. Sm. 81—82° (Am. 30, 406 C. 1904 [1] 239).
	17) Methylchloramid d. 3-Nitrobenzol-1-Carbonsaure. Sm. 77° (Am. 30, 408 C. 1904 [1] 239).
	18) 3-Nitrophenylamid d. Chloressigsäure. Sm. 101—102° (C. 1903 [2] 110).
$\mathbf{C_8H_7O_8N_8S}$	2) 2-Imido-4-Keto-3-[3-Nitrophenyl]tetrahydrothiazol. Sm. 183-184° (C. 1903 [2] 110).
C ₈ H ₇ O ₈ N ₄ Cl	2) 4-Chlor-2-Nitro-1-Semicarbazonmethylbenzol. Sm. 269—270° (B. 36, 3301 C. 1903 [2] 1173; D.R.P. 149748 C. 1904 [1] 909).
C ₈ H ₇ O ₃ N ₄ Br	1) 4-Brom-2-Nitrobenzylidenamidoharnstoff. Sm. 270° (B. 37, 1868 C. 1904 [1] 1601).
$C_8H_7O_4NCl_2$	2) Dimethyläther d. P-Diehlor-3-Nitro-1,2-Dioxybenzol. Sm. 110—111° (C. r. 135, 969 C. 1903 [1] 145).
	3) Dimethyläther d. P. Dichlor-4-Nitro-1, 2-Dioxybenzol. Sm. 46-47° (C. r. 135, 969 C. 1903 [1] 145).
$\mathrm{C_8H_7O_4NBr_2}$	4) Dimethyläther d. Dibromnitrodioxybenzol (aus 3,4,5-Tribrom-1,2-Dinitrobenzol). Sm. 81° (Am. 30, 70 C. 1903 [2] 355).
C ₈ H ₇ O ₄ N ₂ Br	5) 6-Brom-2-Nitro-4-Acetylamido-1-Oxybenzol. Sm. 230° (Soc. 81, 1478 C. 1903 [1] 23, 144).
C ₈ H ₇ O ₄ ClS	3) 3-Chlorid d. Benzol-1-Carbonsäuremethylester-3-Sulfonsäure. Sm. 63-65° (M. 23, 1120 C. 1903 [1] 396).

$\mathbf{C_8H_7O_5N_2Cl}$	2) Aethyläther d. 5-Chlor-2, 4-Dinitro-1-Oxybenzol. Sm. 112° (R.
$\mathbf{C_8H_7O_5N_3S}$	23, 123 <i>C.</i> 1904 [2] 206). *1) 3- oder 6-Nitro-2,4-Dimethyl-1-Diazobenzol-5-Sulfonsäure (<i>A.</i>
$C_8H_7O_7NS$	330, 60 C. 1904 [1] 1142): *1) 1-Methylester d. 4-Nitrobenzol-1-Carbonsäure-2-Sulfonsäure.
0 1 1	Na (Am. 30, 388 C. 1904 [1] 275). 2) 3-Amidobenzol-1,2-Dicarbonsäure-?-Sulfonsäure (D. R. P. 109487
	C. 1900 [2] 408). — *II, 1062.
	3) 1-Methylester d. 2-Nitrobenzol-1-Carbonsäure-4-Sulfonsäure $+ 2H_2O$. Sm. 95-97° (M. 23, 1142 C. 1903 [1] 397).
	4) 4-Methylester d. 2-Nitrobenzol-1-Carbonsäure-4-Sulfonsäure.
$C_8H_7O_8N_6Br$	Sm. 140—142°. Ag (M. 23, 1143 C. 1903 [1] 397). 1) 4-Brom-2, 6-Dinitro-1, 3-Di[Methylnitramido] benzol. Sm. 173°
C ₈ H ₈ ONC1	u. Zers. (R. 21, 415 C. 1903 [1] 506). *13) Phenylchloramid d. Essigsäure (R. 21, 367 C. 1903 [1] 141; C.
922902102	1903 [1] 22; Am. 29, 299 C. 1903 [1] 1165; R. 22, 290 C. 1903
	[2] 242). *16) 4-Chlorphenylamid d. Essigsäure (R. 21, 367 C. 1903 [1] 141;
	R. 22, 290 C. 1903 [2] 242). *22) Methylamid d. 2-Chlorbenzol-1-Carbonsäure. Sm. 92—94° (Soc.
	83, 768 C. 1903 [2] 200, 437; C. 1903 [2] 1174).
	*25) Methylchloramid d. Benzolcarbonsäure. Fl. (Am. 29, 310 C. 1903 [1] 1166).
	27) Methyl-3-Chlor-4-Amidophenylketon. Sm. 92° (Soc. 85, 341 C. 1904 [1] 1404).
	28) 4-Methylphenylchloramid d. Ameisensäure. Sm. 49-50°. Zers.
C_8H_8ONBr	bei 140° (Am. 29, 306 C. 1903 [1] 1166). *7) Phenylbromamid d. Essigsäure. Sm. 94—95° (Am. 29, 303 C.
	1903 [1] 1166). *10) 4-Bromphenylamid d. Essigsäure. Sm. 167—168° (C. 1903)
•	[2] 550). 13) 4-Methylphenylbromamid d. Ameisensäure. Sm. 80° (Am. 29,
	306 <i>C.</i> 1903 [1] 1166).
C_8H_8ONJ	*2) 2-Jodphenylamid d. Essigsäure. Sm. 109—110° (M. 25, 957 C. 1904 [2] 1638).
	*3) 3-Jodphenylamid d. Essigsäure. Sm. 119,5° (M. 25, 958 C. 1904 [2] 1638).
	*4) 4-Jodphenylamid d. Essigsäure. Sm. 181° (M. 25, 948 C. 1904
$C_8H_8ON_2S$	[2] 1638). 3) O-Amid d. Phenylthiooxaminsäure. Sm. 169—170° (B. 37, 3719)
	 C. 1904 [2] 1450). 4) S-Amid d. Phenylthiooxaminsäure. Sm. 176° (B. 37, 3716)
C II OCIP»	C. 1904 [2] 1449). 1) β -Bromäthyläther d. 2-Chlor-1-Oxybenzol. Sd. 140—142 $^{\circ}_{13}$
C_8H_8OClBr	(B. 36 , 2874 C. 1903 [2] 834).
$C_8H_8O_2NC1$	 4-Chlor-2-Acetylamido-1-Oxybenzol. Sm. 176° (Am. 32, 40 C. 1904 [2] 698).
•	 2-Chlor-4-Acetylamido-1-Oxybenzol. Sm. 144° (D.R.F. 147530 1904 [1] 233).
	17) 2-Chlorphenylamidoessigsäure. Sm. 166—167° (B. 37, 4082)
	 O. 1904 [2] 1723). 18) Acetat d. 4-Chlor-2-Amido-1-Oxybenzol. HCl, (2HCl, PtCl₄)
$C_8H_8O_2NBr$	(Am. 32, 38 C. 1904 [2] 698). 22) 4-Brom-2-Nitromethyl-1-Methylbenzol. Sm. 65° (C. 1904 [2] 200).
$C_8H_8O_2N_2Cl_2$	1) 4,5-Dichlor-2-Nitro-1-Aethylamidobenzol. Sm. 120° (R. 21, 421
$\mathbf{C_8H_8O_2N_2Br_2}$	C. 1903 [1] 504). 2) 4,5-Dibrom-2-Nitro-1-Aethylamidobenzol. Sm. 128° (R. 21, 416)
$C_8H_8O_2N_2S$	 G. 1903 [1] 506). 6) Nitril d. Phenylsulfonamidoessigsäure. Sm. 76—77°. Na (B. 37,
	4100 C. 1904 [2] 1727). 7) Methylcyanamid d. Benzolsulfonsäure. Sm. 45—46°; Sd. 205° ₃₀ .
CHCNG	(B. 37, 2811 C. 1904 [2] 593). 1) 4-Nitrobenzylester d. Amidodithioameisensäure. Sm. 135°
$\mathbf{C_8H_8O_2N_2S_2}$	(C. r. 135, 975 C. 1903 [1] 139).

C ₈ H ₈ O ₂ N ₈ Cl	4) 5-Chlor-2-Oxy-1-Semicarbazonmethylbenzol. Sm. 286-287° (B. 37, 4025 C. 1904 [2] 1717).
	(B. 37, 4033 C. 1904 [2] 1718). (B. 37, 4033 C. 1904 [2] 1718).
$\mathbf{C_8H_8O_2N_4Cl_2}$	*1) 8-Chlor-2,6-Diketo-3-Chlormethyl-1,7-Dimethylpurin (D.R.P. 151190 C. 1904 [1] 1586).
$\mathbf{C_8H_8O_8NCl}$	 8-Chlor-2, 6-Diketo-7-Chlormethyl-1, 3-Dimethylpurin. Sm. 145° (D.R.P. 145880 C. 1903 [2] 1036; D.R.P. 153122 C. 1904 [2] 626). Methyläther d. 5-Chlor-3-Nitro-4-Oxy-1-Methylbenzol. Sm. 40—41° (A. 328, 312 C. 1903 [2] 1246). Aethyläther d. 5-Chlor-2-Nitro-1-Oxybenzol. Sm. 63° (R. 21, 322 C. 1903 [1] 79).
$\mathrm{C_8H_8O_3N_2Br_2}$	2) Monolaktam d. $\alpha \delta$ -Dibrom- $\beta \gamma$ -Diamidobutan- $\alpha \delta$ -Dicarbonsäure (B. 35, 4126 C. 1903 [1] 136).
$\mathrm{C_8H_8O_8N_2S}$	*1) 2,4-Dimethyl-I-Diazobenzol-5-Sulfonsäure (4. 330, 46 C. 1904 [1] 1141).
$\mathbf{C_8H_8O_4N_2S}$	2) 3-Nitrophenylamid d. Aethensulfonsäure. Sm. 119 ° (B. 36, 3630 C. 1903 [2] 1327).
$\mathbf{C_8H_8O_4J_2S_2}$	*1) 1,3-Di[Jodmethylsulfon]benzol. Sm. 248° (J. pr. [2] 68, 324 C. 1903 [2] 1171).
$\mathbf{C_8H_8O_6N_2S}$	2) 4-Nitro-1-Acetylamidobenzol-3-Sulfonsäure (D.R.P. 150982 C. 1904 [1] 1235).
$\mathrm{C_8H_8O_6N_5Br}$	1) 4-Brom-2, 6-Dinitro-3-Methylamido-1-Methylnitramidobenzol. Sm. 179° (R. 21, 415 C. 1903 [1] 505).
$\mathbf{C_8H_8O_8N_2S}$	1) 2,4-oder 4,6-Dinitro-5-Oxy-1,3-Dimethylbenzol-6 oder 2-Sulfonsäure. K (B. 37, 3478 O. 1904 [2] 1213).
C_8H_8NCIS	3) 4-Chlorphenylamid d. Thioessigsäure. Sm. 143° (B. 37, 876 C. 1904 [1] 1004).
$C_8H_9ONBr_2$	*4) Aethyläther d. 2, 6-Dibrom-4-Amido-1-Oxybenzol. Sn. 1070 (67°?). HCl (Am. 30, 66 C. 1903 [2] 355).
C_8H_9ONSe	1) Phanglamid d Salamagaine and C. (4, 247, 200, cr 20, 200, cr
$C_8H_9ON_2Cl$	1) Phenylamid d. Selenessigsäure. Cu (Ar. 241, 203 C. 1903 [2] 103). 7) Amid d. 4-Chlorphenylamidoessigsäure. Sm. 125—126° (Bl. [3] 29,
-892-2	967 C. 1903 [2] 1118).
	8) 2-Chlor-4-Amidophenylamid d. Essigsäure. Sm. 133° (D.R.P. 146654 C. 1903 [2] 1485).
$\mathbf{C_8H_9O_2N_8S}$	2) β -Amid d. α -Phenylhydrazin- α -Carbonsäure- β -Thiocarbonsäure. K + 2H ₂ O (B. 37, 622 C. 1904 [1] 957).
$\mathbf{C_8H_9O_2N_3S_2}$ $\mathbf{C_8H_9O_8CIS}$	1) Diacetylchrysean. Sm. 216° u. Zers. (B. 36, 3547 C. 1903 [2] 1379). *12) Chlorid d. 4-Oxy-1-Methylbenzolmethyläther-3-Sulfonsäure. Sm. 83,5—84° (Am. 31, 36 C. 1904 [1] 441).
$C_8H_9O_4NS$	15) α -Benzoylamidomethan- α -Sulfonsäure. Na (B. 37, 4095 C. 1904 [2] 1726).
	16) 2-Methylamid d. Benzol-I-Carbonsäure-2-Sulfonsäure. K ₂ , Ba (Am. 30, 281 C. 1903 [2] 1120).
$C_8H_9O_5NS$	*13) 3-Amid d. 4-Oxybenzolmethyläther-1-Carbonassana 9 Gulfan
	säure. Sm. 276—277°. Na + 3H ₂ O, K + 1^{1} / ₂ H ₂ O, Ca + 5^{1} H ₂ O, Ba + 4^{1} / ₂ H ₂ O, Mg + 6^{1} 10'/ ₂]H ₂ O (Am. 31, 37 C. 1904 [1] 441). 16) 2-Sulfomethylamidobenzol-1-Carbonsäure (D.R.P. 155628 C. 1904 [2] 1444).
	17) 4-Acetylamido-1-Oxybenzol-2-Sulfonsäure (D.R.P. 147530 C.
	18) 2-Methylester d. Phenylsulfaminsäure-2-Carbonsäure. Na(D.R.P. 147552 C. 1904 [1] 129).
	19) 3-Methylester d. Phenylsulfaminsäure-3-Carbonsäure. Na(D.R.P. 147552 C. 1904 [1] 129).
	20) 4-Methylesterd. Phenylsulfaminsäune 4 Conhansiinus N. (2)
$C_8H_{10}ON_2S$	*3) Methyläther d. 2-Oxyphenylthiohernstor
$C_8H_{10}O_5N_4S$	1) 2,6-Diketo-1,3,7-Trimethylpurin-8-Sulfancium (K. W.
$\mathbf{C}_{8}\mathbf{H}_{10}\mathbf{NCl}_{2}\mathbf{P}$	säure) (D. R. P. 74045). — *III, 707. 2) Aethylphenylamidodichlorphosphin. Sd. 143° ₁₂ (A. 326, 222 C. 1903 [1] 866).

$C_8H_{11}ONCl_2$	1) Chlormethyläther d. β -Chlor- α -Oxyäthan + Pyridin. 2 + PtCl ₄ , + AuCl ₃ (A. 330, 127 C. 1904 [1] 1064).
$\mathbf{C_8H_{11}O_2NS}$	*14) Dimethylamid d. Benzolsulfonsäure. Sm. 47—48° (B. 36, 2706 C. 1903 [2] 829).
	*15) Aethylamid d. Benzolsulfonsäure. Sm. 57—58° (B. 36, 2706 C. 1903 [2] 829; B. 37, 3803 C. 1904 [2] 1564).
	21) Methylamid d. 1-Methylbenzol-2-Sulfonsäure. Sm. 74-75° (Am.
$\mathbf{C_8H_{11}O_8NS}$	30, 281 C. 1903 [2] 1120). *4) 1-Dimethylamidobenzol-4-Sulfonsäure. Zers. bei 265—266° (C. 1903 [1] 573).
	*9) 4-Amido-1, 3-Dimethylbenzol-6-Sulfonsäure. Ba (C. 1903 [1] 573). *10) 2-Amido-1, 4-Dimethylbenzol-5-Sulfonsäure (C. 1903 [1] 573).
	*13) 2,4-Dimethylphenylsulfaminsäure. Sm. 200° (D.R.P. 151134 C.
	1904 [1] 1381). *19) Amid d. 4-Oxy-1-Methylbenzolmethyläther-3-Sulfonsäure. Sm. 180-181° (Am. 31, 36 C. 1904 [1] 441).
	*22) 4-Amido-1,3-Dimethylbenzol-5-Sulfonsäure (C. 1903 [1] 573).
	25) 1,2,6-Trimethylthiopyrintrioxyd + 2H ₂ O (A. 331, 260 C. 1904 C. 11 1223).
	26) 1-Dimethylamidobenzol-3-Sulfonsäure. Zers. bei 265—266° (C. 1903 [1] 573).
	27) Methylphenylamidomethan-α-Sulfonsäure. Na (D.R.P. 153193 C. 1904 [2] 575).
	28) β -Oxyathylamid d. Benzolsulfonsäure. Sd. 280° ₁₅ . Na (B. 36, 1279 C. 1903 [1] 1215).
$C_8H_{11}O_4NS$	5) 4-Amido-1-Oxybenzolmethyläther-3-Sulfonsäure (D.R.P. 146655 C. 1903 [2] 1301).
$\mathbf{C_8H_{11}NClJ}$	1) Jodmethylat d. 4-Chlor-2, 6-Dimethylpyridin + 2H ₂ O. Sm. 233-234° (wasserfrei) (A. 331, 255 C. 1904 [1] 1223).
$\mathrm{C_8H_{12}ONCl}$	4) Verbindung (aus Chlormethyläthyläther u. Pyrridin). $2 + PtOl_4$, $+ AuCl_8$ (A. 334, 65 C. 1904 [2] 949).
$\mathbf{C_8H_{12}ON_2S}$	 Methyläther d. 2-Merkapto-4-Keto-6-Methyl-5-Aethyl-3,4-Dihydro-1,3-Diazin. Sm. 203° (Am. 29, 489 C. 1903 [1] 1309). Diäthyläther d. 2-Merkapto-4-Oxy-1,3-Diazin. Sd. 137—138° 18
	(Am. 31, 597 C. 1904 [2] 242). 4) Aethyläther d. 2-Merkapto-4-Keto-5, 6-Dimethyl-3, 4-Dihydro-1, 3-Diazin. Sm. 156° (Am. 29, 488 C. 1903 [1] 1309).
$\mathbf{C_8H_{12}O_2N_2S}$	8) 2-Thiocarbonyl-4,6-Diketo-5,5-Diäthylhexahydro-1,3-Diazin. Sm. 180° (A. 335, 350 C. 1904 [2] 1381).
$\mathbf{C_8H_{12}O_2N_4S}$	1) 1-Ureïdo-2-Thiocarbonyl-4-Keto-5-Methyl-3-Allyltetrahydro- imidazol, Sm. 167° (C. 1904 [2] 1027).
$egin{array}{l} \mathbf{C_8H_{12}O_4NBr} \\ \mathbf{C_8H_{12}O_5N_3Cl} \end{array}$	1) Verbindung (aus d. Verb. $C_8H_{13}O_4NBr_2$). Sm. 78° (C. 1903 [1] 816). 1) Chloracetylbis[Amidoacetyl]amidoessigsäure (Chloracetyldigly-
C ₈ H ₁₂ O ₅ N ₃ C ₂ C ₈ H ₁₂ O ₆ N ₂ S ₄	cylglycin). Sm. 224° (B. 37, 2501 C. 1904 [2] 426). 1) 4-Amido-l-Dimethylamidobenzol-2,5-Di[Thiosulfonsäure]. K.
	(Soc. 83, 1212 C. 1903 [2] 1329). 1) Benzol-1,3-Di[Sulfonamidomethansulfonsäure]. Na ₂ (B. 37, 4102
$C_8H_{12}O_{10}N_2S_4$	C. 1904 [2] 1727). 3) i- α -[$\alpha\delta$ -Dibromvaleryl]amidopropionsäure. Sm. 113—116° (B. 37,
C ₈ H ₁₈ O ₈ NBr ₂	2844 C. 1904 [2] 644). 1) Verbindung (aus β -Nitro- $\alpha\gamma$ -Dioxy- β -Methylpropan). Sm. 115—116°
C ₈ H ₁₈ O ₄ NBr ₂	(C. 1903 [1] 816). 1) Aethylester d. Chloracetylamidoacetylamidoessigsäure. Sm. 153
$C_8H_{13}O_4N_2Cl$	bis 1540 (R 36 2113 C 1903 [2] 340).
$C_8H_{14}O_2N_2S$	2) S-Methylamid d. β -Imidopropan- α -Thiocarbonsäure- α -Carbonsäureäthylester. Sm. 145—146° (A. 329, 347 C. 1904 [1] 435).
$C_8H_{14}O_4N_4Se_2$	1) Di[β -Methylureid] d. Dimethyldiselenid- $\alpha\alpha'$ -Dicarbonsäure (Diselenglykolylmethylharnstoff). Sm. 183—184° (Ar . 241, 191° C . 1908 [2] 103).
$C_8H_{15}OJHg$	1) γ-Methylheptan-γζ-Oxyd-η-Quecksilberjodid. Sm. 44° (A. 329,
$\mathbf{C_8H_{15}O_2NCl_2}$	2) $\beta\beta'$ -Dichlorisopropylester d. Diäthylamidoameisensäure. Sd. 259 bis 261° (Bl. [3] 31, 690 C. 1904 [2] 198).

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CaHIONBr. 1) Amid d. δ-Bromheptan-δ-Carbonsäure. Sm. 55-56° (C. 1904) [2] 1666). 2-[d-sec. Butylamido]-5-Brommethyltetrahydrothiazol. Sm. 92 $C_8H_{16}N_2BrS$ bis 93° (Ar. 242, 65 C. 1904 [1] 998). $C_8H_{16}N_2JS$ 1) 2-[d-sec. Butylamido-5-Jodmethyltetrahydrothiazol. Sm. 1140 (Ar. 242, 66 C. 1904 [1] 999).

1) Verbindung (aus Chlordimethyläther u. Hexamethylentetramin)
(A. 384, 56 C. 1904 [2] 949). C₈H₁₇ON₄Cl 5) δ-Trimethylchloramidovaleriansäure. 2 + PtCl₄ (B. 37, 1856 C₈H₁₈O₂NCl C. 1904 [1] 1487). $C_8H_{18}O_2NBr$ 1) δ-Trimethylbromamidovaleriansäure. Sm. 184—187° (B. 37, 1855) C. 1904 [1] 1487). *1) Diisobutylamidodichlorphosphin. Sm. 37-38°; Sd. 116-117°20 $C_8H_{18}NCl_2P$ (A. 326, 156 C. 1903 [1] 761). 1) Diisobutylamidophosphortetrachlorid. + PCI₅ (A. 326, 160 C₈H₁₈NCl₄P C. 1903 [1] 761). 1) Dipropylmonamid d. Aethylphosphorsäuremonochlorid. C₈H₁₉O₂NCl (A. 326, 192 C. 1903 [1] 820). C₈H₂₀OClP *1) β - Oxytetraäthylphosphoniumchlorid. + HgCl₂, 2 + PtCl₄, + AuUl₃ (Ar. 241, 409 C. 1903 [2] 986).

1) Diäthylmonamid d. Phosphorsäurediäthylester. Sd. 218-2200 C₈H₂₀O₈NP (A. 326, 182 C. 1903 [1] 819).
 *1) Di[Chlormethylat] d. α α'-Di[Dimethylamido]dimethyläther. + PtCl₄ + H₂O, + 2AuCl₃ (A. 334, 13 C. 1904 [2] 947).
 1) Di[Aethylamid]-Isobutylamid d. Thiophosphorsäure. Sm. 48,5° C₈H₂₂ON₂Cl₂ $C_8H_{22}N_3SP$ (A. 326, 208 C. 1903 [1] 821).

- 8 V -

 $C_8H_6O_2$ NCl₂Br 1) 4,6-Dichlor-5-Brom-3-Nitro-1,2-Dimethylbenzol. bis 176,5° (Soc. 85, 275 C. 1904 [1] 1009). *1) 2-Chlorid d. 4-Nitrobenzol-1-Carbonsäuremethylester-2-Sulfon- $C_8H_6O_6NCIS$ säure. Sm. 135° (Am. 30, 388 C. 1904 [1] 275). C₈H₇ONClBr *9) 4-Bromphenylamid d. Chloressigsäure. Sm. 179° (Ar. 241, 212 C. 1903 [2] 104). 14) 3-Bromphenylamid d. Chloressigsäure. Sm. 114° (Ar. 241, 211 C. 1903 [2] 104). 1) Aethylphenylamid d. Phosphorsäuredichlorid. (A. 326, 255 C. 1903 [1] 869). C8H10ONCl9P Sd. 159% 2) 2,4-Dimethylphenylmonamid d. Phosphorsäuredichlorid. Sm. 79° (A. 326, 240 C. 1903 [1] 868). 3) 2,5-Dimethylphenylmonamid d. Phosphorsäuredichlorid. Sm. 119° (A. 326, 240 C. 1903 [1] 868). 4) 3,4-Dimethylphenylmonamid d. Phosphorsäuredichlorid. Sm. 76° (A. 326, 240 C. 1903 [1] 868). $C_8H_{10}O_2NSP$ 1) Diäthylmonamid d. Thiophosphorsäurediäthylester. Sd. 110°_{29} (4. 326, 211 C. 1903 [1] \$22). 1) 2, 4-Dibromphenylmonamid d. Phosphorsäuremonoäthylester. $C_8H_{10}O_8NBr_2P$ K (A. 326, 235 C. 1903 [1] 867).

1) Aethylphenylmonamid d. Thiophosphorsäuredichlorid.
(A. 326, 257 C. 1903 [1] 869). $C_8H_{10}NCl_9SP$ 1) 2-Methyläther-4-Aethyläther d. 6-Chlor-2-Merkapto-4-Oxy-C,H,ON,CIS 5-Methyl-1,3-Diazin. Sm. 85° (Am. 32, 354 C. 1904 [2] 1415).

1) α-Verbindung (aus Methylheptenonoxim). Sm. 94°. Pikrat (A. 329, 354 C. 1903 [2] 1413). C₈H₁₄ONJ₈Hg₉ β-Verbindung (aus Methylheptenonoxim). Sm. 123° u. Zers. (A. 329, 185 *C.* **1903** [2] 1413). *1) Diisobutylmonamid d. Phosphorsäuredichlorid. S.n. 54° (A. 326, C₈H₁₈ONCl₂P 185 C. 1903 [1] 820). 1) Diisobutylmonamid d. Phosphorsäuredibromid. Sm. 68° (A. 326, $C_8H_{18}ONBr_2P$ 194 C. 1903 [1] 820). $C_8H_{18}NCl_2SP$ *1) Diisobutylmonamid d. Thiophosphorsäuredichlorid. Sm. 36°; Sd. 150°₁₀ (A. 326, 213 C. 1903 [1] 822).

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1) Diisobutylmonamid d. Thiophosphorsäuredibromid. Sm. 660 C₈H₁₈NBr₂SP (A. 326, 216 C. 1903 [1] 822).

1) Di [Isobutylamid] d. Phosphorsäuremonochlorid. C₈H₂₀ON₂ClP Sm. 86° (A. 326, 176 C. 1903 [1] 819).

1) Isobutylmonamid d. Thiophosphorsäurediäthylester. Sd. 104% $C_8H_{20}O_2NSP$ (A. 326, 204 C. 1903 [1] 821).

C_o-Gruppe.

*1) Inden (B. 36, 640 C. 1903 [1] 717).
*4) Phenylallylen. Sd. 181—185° (C. r. 135, 1347 C. 1903 [1] 328). C_9H_8 *2) α-Phenylpropen. Sd. 174—175° (167—170°) (B. 36, 206 C. 1903 [1] 512; B. 36, 621 C. 1903 [1] 703; B. 36, 772 C. 1903 [1] 834; B. 36, 2572 C. 1903 [2] 495; B. 36, 3033 C. 1903 [2] 948; C. r. 139, 482 C. 1904 C, H, [2] 1038).

*3) γ -Methylpropen. Sd. 156—157° (C. r. 139, 482 C. 1904 [2] 1038).

*5) 4-Methylphenyläthen. Sd. 63°₁₅ (B. 36, 1636 C. 1903 [2] 26).
*1) Propylbenzol. Sd. 157,5°₇₆₅ (B. 36, 622 C. 1903 [1] 703).
*5) 1-Methyl-4-Aethylbenzol. Sd. 162,5°₇₆₀ (B. 36, 1637 C. 1903 [2] 26; C_0H_{12} B. 36, 1874 C. 1903 [2] 286).

12) 4-Methyl-1-Isopropyl-2, 3-Dihydro-R-Penten (Anhydrocamphorylalko-

CoH

hol). Sd. 144—146° (B. 37, 237 C. 1904 [1] 726).

13) Kohlenwasserstoff (aus Pinonsäure). Fl. (B. 37, 239 C. 1904 [1] 726).

*12) α-Cyklogeraniolen. Sd. 138—142°₇₃₅ (B. 37, 848 C. 1904 [1] 1145).

*16) 4-Isopropyl-1-Methyl-2,3-Dihydro-R-Penten (Pulegen). Sd. 138—139°

(A. 327, 131, 151 C. 1903 [1] 1412; A. 329, 108 C. 1903 [2] 1071).
*17) Pulenen. Sd. 60—65°₁₂ (A. 329, 88 C. 1903 [2] 1071).
19) βζ-Dimethyl-βε-Heptadiën. Sd. 140—142° (B. 37, 846 C. 1904 [1] 1145).
20) 3-Methylen-1,1,2-Trimethyl-R-Pentamethylen. Sd. 138—140° (C. r. 120, 1441 C. 1202 [2] 287).

136, 1461 C. 1903 [2] 287).
21) Oktohydroinden. Sd. 163—164° (C. 1903 [2] 989).
22) Kohlenwasserstoff (aus 1-Oxy-1-Propylhexahydrobenzol). Sd. 154°₇₈₀ (C. r. 138, 1323 C. 1904 [2] 219).

23) Kohlenwasserstoff (aus α-Oxyisopropylhexahydrobenzol). Sd. 1510 (C. r.

C9H18

C9H16

139, 345 C. 1904 [2] 704). *25) β -Nonen. Sd. 147—148° (B. 36, 2550 C. 1903 [2] 654). 28) Aethyl-R-Heptamethylen. Sd. 163—163,5°₇₄₀ (C. 1903 [1] 568; A. 327, 72 C. 1903 [1] 1124).

- 9 II -

C 85,0 - H 3,9 - N 11,0 - M. G. 127. C_9H_5N 1) Nitril d. α-Phenyläthin-β-Carbonsäure (N. d. Phenylpropiolsäure). Sm. 38-40° (B. 36, 3671 C. 1903 [2] 1313).

*3) Aldehyd d. Phenyläthin-c-Carbonsäure (C. r. 137, 125 C. 1903 [2] 569; B. 36, 4670 C. 1903 [2] 1313).
*4) Isocumarin. Sm. 46° (B. 36, 573 C. 1903 [1] 710). C9H8O

 $C_9H_6O_2$

 $C_0H_8O_8$

*6) Phenylpropiolsäure (Soc. 83, 1154 C. 1903 [2] 1369).

16) 4-Oxy-1, 2-Benzpyron. Sm. 206° (B. 36, 464 C. 1903 [1] 636).

17) Verbindung (aus Isobrenzschleimsäure). Sm. 155—160° (C. r. 137, 923 C. 1904 [1] 291).

*4) Daphnetin. K, + Kaliumacetat (Soc. 83, 134 C. 1903 [1] 89, 466).

*6) Phtalidcarbonsäure. Sm. 153° (A. 334, 357 C. 1904 [2] 1054).

13) 7,8-Dioxy-1,4-Benzpyron + 2H₂O. Sm. 262° (wasserfrei) (B. 36, 128 C. 1903 [1] 468). C9H6O4

128 C. 1903 [1] 468). 14) 1,2-Lakton d. 1-Oxymethylbenzol-2,5-Dicarbonsäure. Sm. 283 bis

284° (B. 36, 843 C. 1903 [1] 971). *2) Benzol-1-Carbonsäure-2-Ketocarbonsäure. Sm. 145°. K (M. 24, C9H6O5

933 C. 1904 [1] 515; A. 334, 359 C. 1904 [2] 1055).
*3) Benzol-1, 3, 5-Tricarbonsäure. Sm. 380° (B. 36, 1799 C. 1903 [2] 283). $C_0H_0O_0$ 6) Nitril d. Phenylmalonsäure. Sm. 68-69°; Sd. 152-153°12. Na, Ag $C_9H_6N_2$ (Am. 32, 123 C. 1904 [2] 953).

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3) \eta \eta-Dichlor-\alpha-Phenylpropin. Sd. 131—132°<sub>22</sub> (C. r. 137, 127 C. 1903 [2] 569).
CoH,Cl
                    1) \alpha\beta\gamma\gamma-Tetrachlor-\alpha-Phenylpropen. Sd. 165—167^{0}_{28} (C. r. 137, 127
C_9H_6Cl_4
                       C. 1903 [2] 570).

    βγη-Trichlor-α-Phenylpropen. Sm. 47°; Sd. 155°<sub>30</sub> (C. r. 136, 1074 C. 1903 [1] 1345).

C9H7Cl3
                  *1) Methyläther d. 4-Oxyphenyläthin. Sd. 85-88°<sub>11</sub> (B. 36, 915 C.
C<sub>9</sub>H<sub>8</sub>O
                       1903 [1] 970)
                  *7) 2-Keto-2,3-Dihydroinden. Sm. 58° (A. 336, 3 C. 1904 [2] 1465).
                  *9) γ-Keto-γ-Phenylpropen (Vinylphenylketon). Fl. (B. 36, 1355 C. 1903
                       [1] 1299).
                *10) Aldehyd d. \beta-Phenylakrylsäure. + SbCl<sub>5</sub>, 2 + SnCl<sub>4</sub>, 2 + SnBr<sub>4</sub>, 4 + ThCl<sub>4</sub> (B. 37, 3666 C. 1904 [2] 1569).
                  16) polym. γ-Keto-γ-Phenylpropen (polym. Vinylphenylketon) (B. 36,
                       1355 C. 1903 [1] 1299).
                  *7) Zimmtsäure. 3 + SbCl<sub>5</sub>, + FeCl<sub>3</sub>, 2 + SnCl<sub>4</sub> (B. 35, 4128 C. 1903 [1] 160; C. r. 136, 1332 C. 1903 [2] 107; B. 36, 4266 C. 1904 [1] 373;
C_9H_8O_2
                *8) Isozimmtsäure (B. 36, 176 C. 1903 [1] 582; B. 36, 903 C. 1904 [1] 573; B. 37, 3668 C. 1904 [2] 1569).

*8) Isozimmtsäure (B. 36, 176 C. 1903 [1] 582; B. 36, 903 C. 1903 [1] 1133; B. 36, 2497 C. 1903 [2] 721).

*9) Allozimmtsäure. Ca + 2H<sub>2</sub>O, Ba + H<sub>2</sub>O (B. 36, 182 C. 1903 [1] 582; B. 36, 904 C. 1903 [1] 1133; C. 1904 [2] 439).

*10) isom. \beta-Phenylakrylsäure. Sm. 37° (B. 34, 3640; B. 37, 3361 C. 1904 [2] 1123)
                       1904 [2] 1123).
                *12) Homococasăure (Protococasăure) (J. pr. [2] 66, 421 C. 1903 [1] 528).
*13) Homoisococasăure (Protoisococasăure) (J. pr. [2] 66, 421 C. 1903 [1] 528).
*27) isom. Isozimmtsăure (B. 36, 1448 C. 1903 [1] 1409).
                  28) Methylenäther d. 3.4-Dioxyphenyläthen. Sd. 107-108^{\circ}_{15} (223 -225^{\circ}_{1})
                 (B. 36, 3596 C. 1903 [2] 1366; G. 34 [1] 365 C. 1904 [2] 214; G. 34 [2] 176 C. 1904 [2] 648, 982).

29) Methylenäther d. polym. 3,4-Dioxyphenyläthen. Zers. bei 210°
                       (G. 34 [1] 370 C. 1904 [2] 214).
                  30) 4-Oxymethylbenzfuran. Sm. 26-27°; Sd. 147-150°12 (B. 37, 200
                       C. 1904 [1] 661).
                  *1) 3,4-Methylenäther d. Methyl-3,4-Dioxyphenylketon. Sm. 87° (().
C_9H_8O_3
                       34 [1] 364 C. 1904 [2] 214).
                 *3) $\beta$-[2-Oxyphenyl]akrylsäure (B. 37, 346 C. 1904 [1] 662).
*4) $\beta$-[3-Oxyphenyl]akrylsäure. Sm. 188—189° (B. 37, 4127 C. 1904)
                       [2] 1735)
                *12) β-Phenyl-α-Ketoäthan-α-Carbonsäure (A. 333, 228 C. 1904 [2] 1389).
                *24) Lakton d. l-Dioxymethylbenzolmethyläther-2-Carbonsäure.
                       44°; Sd. 242—245° (M. 25, 497 C. 1904 [2] 325).
                 3f) Formalphenyloxyessigsäure. Sm. 20°; Sd. 223° (R. 21, 316 C. 1903
                       [1] 137).
                 32) Methylester d. Benzol-l-Carbonsäure-2-Carbonsäurealdehyd. Sd.
                       220—222° (M. 25, 496 C. 1904 [2] 325).
                 33) 4-Aethyl-1,2-Phenylenester d. Kohlensäure. Sd. 135–137^{0}_{12} (C. r.
                      138, 1702 C. 1904 [2] 436).
                 *7) 3,4-Dioxyphenylessigmethylenäthersäure. Sm. 128° (A. 332, 333
C<sub>9</sub>H<sub>8</sub>O<sub>4</sub>
                       C. 1904 [2] 652).
                *18) Benzol-1-Carbonsäure-2-Methylcarbonsäure. Sm. 175° (M. 24, 936)
                       C. 1904 [1] 515).
                *19) Benzol-1-Carbonsäure-3-Methylcarbonsäure. Sm. 184—185° (B. 36,
                      3611 C. 1903 [2] 1372).
               *43) Monomethylester d. Benzol-1,4-Dicarbonsäure (B.\ 37,\ 3222\ C.\ 1904
                      [2] 1121).
                 49) Areolatol + H_2O. subl. bei 220° (J. pr. [2] 68, 60 C. 1903 [2] 513). 50) Gemischtes Peroxyd d. Essigsäure u. Benzolcarbonsäure. Sd.
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128—130°₁₉ (Am. 29, 197 C. 1903 [1] 959).

(D.R.P. 137584 C. 1903 [1] 112).

358 C. 1904 [2] 1055).

51) Mono[4-Methylphenylester] d. Oxalsäure. Sm. 185—186° u. Zers.

*19) α -Oxy- α -Phenylmethan- α , 2-Dicarbonsäure. Ba + H₂O (A. 334,

	— 120 — 911.
$C_9\mathbf{H}_8O_5$	*21) 4-Oxybenzolmethyläther-1,2-Dicarbonsäure. Sm. 167° (C. 1904 [1] 1597).
	*24) 2-Oxybenzolmethyläther-1,4-Dicarbonsäure. Sm. 281° (C. 1904) [1] 1597).
	35) 1-Aldehyd d. 4,5-Dioxybenzol-5-Methyläther-1,3-Dicarbonsäure
	(D.R.P. 71162). — *II, 1122. 36) Aldehydd. 3-Oxybenzol-1-Carbonsäure-4-Kohlensäuremethylester.
	Sm. 98—99° (D.R.P. 93187). — *III, 76. 37) 6-Acetat d. 2,6-Dioxy-1,4-Benzochinon-2-Methyläther. Zers. bei 275—278° (M. 23, 956 C. 1903 [1] 286).
$\mathbf{C_9H_8O_6}$	6) 4-Oxyphenyltartronsäure. Sm. 118—120° u. Zers. K, (D.R.P. 115817 C. 1901 [1] 72). — *II, 1164.
	7) Dimethylester d. 1,4-Pyron-2,6-Dicarbonsäure. Sm. 122,5° (B. 37,
$\mathbf{C}_{9}\mathbf{H}_{8}\mathbf{O}_{7}$	3751 C. 1904 [2] 1539). 3) 3,4-Dioxyphenyltartronsäure. Fl. Ba + H ₂ O (D.R.P. 115817 C. 1901 [1] 72) *II, 1194.
$\mathbf{C_9H_8N_2}$	*3) 4-Phenylpyrazol. Sm. 228° (B. 36, 3778 C. 1904 [1] 41).
	*7) 1-[3-Pyridyl]pyrrol. Sd. 251° (C. r. 137, 861 C. 1904 [1] 104). *8) 2-[3-Pyridyl]pyrrol. Sm. 72° (C. r. 137, 861 C. 1904 [1] 104).
	*16) 2-Methyl-1, 3-Benzdiazin. Sm. 41—42; Sd. 247,5—248° 767,5 (B. 36, 810 C. 1903 [1] 1978).
	21) 5-Phenylimidazol. Sm. 128—129°. (2HCl, $PtCl_4 + 3H_2O$) (B. 35, 4135 C. 1903 [1] 294).
	22) Nitril d. β-Phenylimidopropionsäure? Sm. 124° (B. 36, 3666 C. 1903 [2] 1312).
$\mathbf{C_9H_8Cl_2}$	2) γγ-Dichlor-α-Phenylpropen. Sm. 54°; Sd. 142—143° ₃₀ (C. r. 136, 94 C. 1903 [1] 457).
$\mathbf{C_9H_8Cl_4}$	1) $\alpha \beta \gamma \gamma$ -Tetrachlor- α -Phenylpropan. Sm. 66° (C. r. 136, 95 C. 1903 [1] 457).
$\mathbf{C}_{9}\mathbf{H}_{8}\mathbf{Br}_{4}$	4) 2, 3, 5, 6-Tetrabrom-4-Aethyl-1-Methylbenzol (B. 36, 1637 C. 1903 [2] 26).
$\mathbf{C}^{9}\mathbf{H}^{9}\mathbf{N}$	*17) Nitrif d. 1,2-Dimethylbenzol-4-Carbonsäure. Sm. 66 ° (B. 36, 328 C. 1903 [1] 576).
	*18) Nitril d. 1,3-Dimethylbenzol-2-Carbonsäure. Sm. 90—91° (B. 36,
	327 C. 1903 [1] 576). *19) Nitril d. 1, 3-Dimethylbenzol-4-Carbonsäure. Sm. 24°; Sd. 223 bis 224° (B. 36, 327 C. 1903 [1] 576; G. 32 [2] 491 C. 1903 [1] 832).
	20) Nitril d. 1, 2-Dimethylbenzol-3-Carbonsaure. Sd. 230—240° (B. 36, 329 C. 1903 [1] 576).
	21) Nitril d. 1,4-Dimethylbenzol-2-Carbonsäure. Sm. 5,5° (13-14°) (B. 36, 330 C. 1903 [1] 576; G. 32 [2] 484 C. 1903 [1] 831).
$egin{array}{cl} \mathbf{C_9H_9N_9} \\ \mathbf{C_9H_9C1} \end{array}$	*17) 5-Methyl-1-Phenyl-1, 2, 3-Triazol. HCl (B. 35, 4048 C . 1903 [1] 169). 3) α -Chlor- α -[4-Methylphenyl]äthen. Sd. 96—97,5 $^{\circ}$ ₁₃ (B. 36, 1876)
	C. 1903 [2] 286). 4) β -Chlor- α -[4-Methylphenyl] äthen. Sm. 36—37°; Sd. 222—224° ₇₆₀
C ₉ H ₉ Br	(B. 36, 3908 C. 1903 [2] 1438). *4) α -Brom- β -Phenylpropen. Sd.225—228° (C.r.135, 1346 C. 1903 [1] 328).
0911921	5) β -Brom- α -Phenylpropen. Sd. 109—110 $^{\circ}_{20}$ (B. 36, 207 C. 1903 [1] 512). 6) β -Brom- α -[4-Methylphenyl]äthen. Sm. 46,5—47,5 $^{\circ}$ (B. 36, 3908 C. 1903
C ₉ H ₁₀ O	[2] 1439). *6) Methyläther d. 2;-Oxyphenyläthen. Sd. 82-83 ⁶ 11 (B. 36, 3590
<i>b</i> 10	C. 1903 [2] 1365). *7) Methyläther d. 4-Oxyphenyläthen. Sd. 204—205° ₇₅₆ (B. 36, 3592)
	C. 1903 [2] 1366). *11) β -Keto- α -Phenylpropan. Sd. 210—212° (A. 325, 146 C. 1903 [1] 644).
	*12) Aethylphenylketon (<i>C. r.</i> 137, 576 <i>C.</i> 1903 [2] 1110; <i>C.</i> 1904 [1] 1259). *14) Methyl-4-Methylphenylketon (<i>C. r.</i> 136, 558 <i>C.</i> 1903 [1] 832).
	*15) Aldehyd d. α-Phenylpropionsäure. Sd. 204° (C. r. 137, 1261 C. 1904
	[1] 445). *18) Aldehyd d. 1, 3 - Dimethylbenzol - 4 - Carbonsäure. Sd. 219—229° (C. 1901 [2] 772; G. 32 [1] 486 C. 1903 [1] 831; Soc. 85, 217 C. 1904
	[1] 656, 939). *20) Aldehyd d. 1,4-Dimethylbenzol-2-Carbonsäure Sd. 100°, (G. 32) [2] 477 C. 1903 [1] 830).
	[2] 7.1 0. 70.0 [2] 20.2

26) Methyläther d. α-Oxy-α-Phenyläthen. Sd. 197° (C. r. 137, 261 C9H10O C. 1903 [2] 664; C. r. 138, 287 C. 1904 [1] 719; Bl. [3] 31, 525 C. 1904 [1] 1552). 27) Methyläther d. β -Oxy- α -Phenyläthen. Sd. 210—213° (C. r. 138, 288 C. 1904 [1] 720; Bl. [3] 31, 527 C. 1904 [1] 1552). 28) Methyläther d. 3-Oxyphenyläthen. Sd. 89-90₁₄ (B. 36, 3592 C. 1903) [2] 1366). 29) 4-Methyl-1, 2-Dihydrobenzfuran. Sd. 210-211° (B. 36, 2877 C. 1903) [2] 834). 30) Aldehyd d. 1-Aethylbenzol-4-Carbonsäure. Sd. 221° (C. r. 136, 558 C. 1903 [1] 832). *7) Methyl-4-Oxy-2-Methylphenylketon. Sm. 128°; Sd. 313° (C. 1904) C,H,00, 1] 1597). *9) Methyläther d. Methyl-2-Oxyphenylketon. Sd. 2390757 (B. 36, 3589 C. 1903 [2] 1365). *10) Methyläther d. Methyl-3-Oxyphenylketon. Sd. $238-240^{\circ}_{786}$ (B. 36, 3591 C. 1903 [2] 1366). *17) β -Phenylpropionsäure. Sm. 48°. Ca, Ba (B. 35, 905 C. 1903 [1] 1133; C. r. 138, 1049 C. 1904 [1] 1493; C. 1904 [2] 1697). *20) 4-Methylphenylessigsäure. Sm. 91° (B. 36, 3515 C. 1903 [2] 1275). *23) 1-Aethylbenzol-4-Carbonsäure. Sm. 112° (B. 36, 3906 C. 1903 [2] 1438). *25) 1,2-Dimethylbenzol-4-Carbonsäure. $+ H_2SO_4$ (R. 21, 351 C. 1903) [1] 150). *27) 1,3-Dimethylbenzol-4-Carbonsäure. $+ 1\frac{1}{2}H_2SO_4$ (R. 21, 351) O. 1903 [1] 150). *28) 1,3-Dimethylbenzol-5-Carbonsäure. $+ H_2SO_4$ (R. 21, 351 C. 1903) [1] 150). *29) 1,4-Dimethylbenzol-2-Carbonsäure. $+ H_2SO_4$ (R. 21, 351 C. 1903) [1] 150). *43) Aethylester d. Benzolcarbonsäure. + AlCl $_{8}$ (B. 36, 3087 C. 1903 [2] 1004; Soc. 85, 1107 O. 1904 [2] 976). *53) Aethyl-2-Oxyphenylketon. Sd. 115° 16 (B. 36, 2586 C. 1903 [2] 621). 56) Methylenäther d. 3,4-Dioxy-1-Aethylbenzol. Sd. 212—213°₇₅₉ (B. 36, 3596 C. 1903 [2] 1367). 57) α -Oxy- β -Keto- α -Phenylpropan. Sd. 135 $^{\circ}_{40}$ (G. 33 [2] 263 C. 1904 [1] 24). 58) β -Oxyathylphenylketon. Sm. 190° (B. 36, 1356 C. 1903 [1] 1299). 59) Methyl-2-Oxy-4-Methylphenylketon. Sm. 21°; Sd. 245°_{760} (C. 1904) [1] 1597). 60) 3-Methylcykloheptatriëncarbonsäure. Sm. 107-1080. Ag (B. 36, 3516 C. 1903 [2] 1275). 61) 3-Methylnorcaradiëncarbonsäure. Fl. (B. 36, 3515 C. 1903 [2] 1275). 62) Aldehyd d. 4-Oxy-1,3-Dimethylbenzol-5-Carbonsaure. Sm. 116; Sd. 222° (B. 35, 4108 C. 1903 [1] 150). 63) Aldehyd d. 3-Oxy-1,4-Dimethylbenzol-2-Carbonsäure. Sm. 62—63° (B. 35, 4108 C. 1903 [1] 150). 64) Aldehyd d. 4-Oxyphenylessigmethyläthersäure. (C. r. 134, 1505). - *III, 66.65) Aldehyd d. 5-Oxy-1-Methylbenzolmethyläther-2-Carbonsäure. Sd. 257° (B. 31, 1151). — *III, 64. 66) Aldehyd d. 6-Oxy-1-Methylbenzolmethyläther-3-Carbonsäure. Sd. 251° (B. 31, 1151). — *III, 65. CaHIOB *8) α -Oxy- α -Phenylpropionsäure $+\frac{1}{2}H_2O$. Sm. 94° (89–90°) (B. 36, 1406 C. 1903 [1] 1347; B. 36, 4315 C. 1904 [1] 449). *12) α -Oxy- β -Phenylpropionsäure. Sm. 96° (B. 36, 4313 C. 1904 [1] 449). *27) 4-Methoxylphenylessigsäure. Sm. 86°. Ag (A. 332, 326 C. 1904 [2] 651). *41) 5-Oxy-1-Methylbenzolmethyläther-2-Carbonsäure. Sm. 176° (O. 1904 [1] 1597). *47) 3-Oxy-1-Methylbenzolmethyläther-4-Carbonsäure. 104° (*C.* **1904** [1] 1597). *50) 4-Oxybenzoläthyläther-1-Carbonsäure ($\it C. r. 136, 378 C. 1903$ [1] 636).

*60) Aldehyd d. 3,4-Dioxybenzoldimethyläther-1-Carbonsäure (B. 37, $C_9H_{10}O_8$ 3402 *C.* **1904** [2] 1318).

*62) Methylester d. a-Oxyphenylessigsäure. Sm. 58° ; Sd. 144°_{20} . +4 AlCl_s (B. 37, 2767 C. 1904 [2] 708; Soc. 85, 1107 C. 1904 [2] 976).

- *88) α-[4-Oxyphenyl] propionsäure. Sm. 130° (A. 227, 268; C. r. 131, 270). -`*II, *930*.
- 93) 3,4-Methylenäther d. 3,4-Dioxy-1-[α-Oxyäthyl]benzol. Sd. 137 bis 138°₁₄ (268–270°) (Β. 36, 3595 C. 1903 [2] 1366; G. 34 [1] 361 C. 1904 [2] 214).

94) 5-Methyläther d. Methyl-2, 5-Dioxyphenylketon. Sm. 520 (B. 37, 774 Anm. *O.* **1904** [1] 1155).

- 95) 1-α-Oxy-α-Phenylpropionsäure. Sm. 90—91,5° (Soc. 85, 1260 C. 1904) [2] 1304).
- 96) Aldehyd d. 4,5-Dioxy-1-Methylbenzol-4-Methyläther-2-Carbonsäure. Sm. 165° (D.R.P. 91170). — *III, 77.
- 3, 4-Dioxybenzol-3-Aethyläther-1-Carbonsäure. 97) Aldehyd d. Sm. 77,5° (D.R.P. 81071, 81352, 85196, 90395). — *III, 74.
- 98) Methylester d. 1- α -Oxyphenylessigsäure (C. r. 124, 196). *II, 925. *11) $r-\alpha$ -Oxy- α -[4-Methoxylphenyl]essigsäure. Sm. 108—109° (B. 37,
- 3174 C. 1904 [2] 1303). *18) 2,4-Dioxybenzoldimethyläther-1-Carbonsäure. Sm. 108° (M. 24, 890

CoH10O4

- C. 1904 [1] 512). *21) 3,4-Dioxybenzoldimethyläther-1-Carbonsäure + 2H₂O. Sm. 179 bis 180° (Soc. 83, 621 C. 1903 [1] 591; B. 37, 2152 C. 1904 [2] 207).
- *22) 3, 5 Dioxybenzoldimethyläther 1 Carbonsäure. Sm. 180—181° (180°) (B. 35, 3901 C. 1903 [1] 27; B. 36, 2303 C. 1903 [2] 578).
- *34) Aldehyd d. 3,4,5-Trioxybenzol-3,5-Dimethyläther-1-Carbonsäure.
- Sm. 113° (B. 36, 1032 C. 1903 [1] 1223).
 *35) Methylester d. 3,5-Dioxy-1-Methylbenzol-2-Carbonsäure. Sm. 140°
- (M. 24, 898 C. 1904 [1] 512).

 *55) Methoxylmethylester d. 2-Oxybenzol-1-Carbonsäure (Mesotan).
 Sd. 153°₈₂ (C. 1903 [1] 1155; D.R.P. 137585 C. 1903 [1] 112).

 57) Aethyl-2,3,4-Trioxyphenylketon. Sm. 127° (D.R.P. 42149, 50451).
- *III, *115*.
- 58) Monomethyläther d. Methyl-2, 3, 4-Trioxyphenylketon + H_2O . Sm. 132—133° (wasserfrei) (Soc. 83, 131 C. 1903 [1] 89, 466).
- 59) $d-\alpha\beta$ -Dioxy- β -Phenylpropionsäure. Sm. $166-167^{\circ}$. (B. 30, 1608). — *II, 1034.
- 60) 1-αβ-Dioxy-β-Phenylpropionsäure. Sm. 166-167°. Zn + 2H₂O
 (B. 30, 1608). *II, 1034.
- 61) d-α-Oxy-α-[4-Methoxylphenyl]essigsäure. Sm. 104—105°. Cinchoninsalz (B. 37, 3175 C. 1904 [2] 1304).
 62) 1-α-Oxy-α-[4-Methoxylphenyl]essigsäure. Sm. 104—105°. Cinchonin-
- salz (B. 37, 3175 C. 1904 [2] 1304).
- 63) 3,5-Dioxy-1-Methylbenzol-?-Methyläther-2-Carbonsäure. Sm. 169 bis 170° (M. 24, 897 C. 1904 [1] 512). 64) 3,5-Dioxy-1-Methylbenzol-3-Methyläther-4-Carbonsäure. Sm. 145
- bis 146° (M. 24, 900 C. 1904 [1] 513). 65) Anhydrid d. β -Hepten- $\gamma \xi$ -Oxyd- $\alpha \beta$ -Dicarbonsäure. Sm. 182° (A.
- 331, 193 C. 1904 [1] 1213).
 66) Aldehyd d. 2,4,6-Trioxy-1,3-Dimethylbenzol-5-Carbonsäure. Zers. bei 190° (M. 24, 878 C. 1904 [1] 369). 67) Aldehyd d. 2,4,6-Trioxybenzol-2,4-Dimethyläther-1-Carbonsäure.
- Sm. 70-71° (M. 24, 861 C. 1904 [1] 367). 68) Methylester d. 3,5-Dioxy-1-Methylbenzol-2-Carbonsäure. Sm. 98
- bis 99° (M. 24, 895 C. 1904 [1] 512).
 69) Methylester d. 2,6-Dioxy-1-Methylbenzol-3-Carbonsäure. Sm. 126
- bis 128° (130-132°) (M. 24, 117 C. 1903 [1] 967; M. 24, 909 C. 1904 [1] 513). 70) Methylester d. 2,4-Dioxybenzol-4-Methyläther-1-Carbonsäure.
- Sm. 48-50° (M. 24, 887 C. 1904 [1] 512).
 *3) 3,4,5-Trioxybenzol-3,5-Dimethyläther-1-Carbonsäure (Syringa-C₉H₁₀O₅ säure). Sm. 202° (B. 36, 216 C. 1903 [1] 455).
 - *25) Methylester d. 3,4,5-Trioxybenzol-4-Methyläther-1-Carbonsäure. Sm. 147,5° (B. 36, 216 C. 1903 [1] 455).

 $C_9H_{12}O$

C. 1903 [2] 1366).

26) 2, 3, 4-Trioxybenzol-3, 4-Dimethyläther-l-Carbonsäure. Sm. 169 bis $C_9H_{10}O_5$ 1726 (B. 36, 661 C. 1903 [1] 710; M. 25, 513, 518 C. 1904 [2] 1118). 27) Dimethylester d. γ-Keto-αδ-Pentadiën-αε-Dicarbonsäure. Sm. 169 bis 169,5° (B. 37, 3295 C. 1904 [2] 1041). 28) 1-Aethylcarbonat d. 1,2,3-Trioxybenzol. Sm. 74° (B. 37, 108 C. **1904** [1] 584). 29) Verbindung (aus γ -Keto- $\alpha\delta$ -Pentadiën- $\alpha\varepsilon$ -Dicarbonsäuredimethylester). Sm. 240–241° u. Zers. (B. 37, 3296 C. 1904 [2] 1041). 2) Butan- $\alpha \alpha \beta \beta \delta$ -Pentacarbonsäure. Fl. Ag₅ (Soc. 85, 612 C. 1904 [1] $C_9H_{10}O_{10}$ 1254, 1553). *4) 4-Phenyl-4,5-Dihydropyrazol. Fl. HCl, (2HCl, PtCl₄), (HCl, AuCl₈), $C_0H_{10}N_2$ Oxalat (B. 36, 3777 C. 1904 [1] 41). *18) 2-Methyl-3,4-Dihydro-1,3-Benzdiazin. Pikrat (B. 36, 813 C. 1903 [1] 979). *21) Nitril d. α-Phenylamidopropionsäure. Sm. 92° (D.R.P. 142559 C. 1903 [2] 81) *24) Nitril d. 4-Methylphenylamidoessigsäure. Sm. 61° (57°) (D.R.P. 138098 C. 1903 [1] 208; D.R.P. 142559 C. 1903 [2] 81; B. 37, 4082 C. 1904 [2] 1723). *28) Nitril d. 4-Dimethylamidobenzol-1-Carbonsaure. Sm. 76°; Sd. 318°, 58 (B. **37**, 1739 C. **1904** [1] 1599). *30) Nitril d. 2-Methylphenylamidoessigsäure (D.R.P. 138098 C. 1903 [1] 208). 34) αβ-Benzylidenhydrazonäthan. Sm. 208° (J. pr. [2] 67, 144 C. 1903 [1] 865). 35) 3-Methyl-3,4-Dihydro-1,3-Benzdiazin. Sm. 91-92°; Sd. 309°, 766. Pikrat (B. 37, 3646 C. 1904 [2] 1513). 36) Nitril d. Methylphenylamidoessigsäure. Sm. 13°; Sd. 266° (B. 37, 2636 C. 1904 [2] 518; B. 37, 2825 C. 1904 [2] 702; B. 37, 4083 C. 1904 [2] 1723). 13) 1-Phenylamido-5-Methyl-1, 2, 3-Triazol (A. 325, 158 C. 1903 [1] 644). $\mathbf{C}_{9}\mathbf{H}_{10}\mathbf{N}_{4}$ 5) Dichlortrimethylbenzol. Sm. 77° (Soc. 79, 144 C. 1904 [1] 88).
6) Verbindung (aus4-Oxy-1-Dichlormethyl-1,4-Dimethyl-1,4-Dihydrobenzol).
Sd. 118—123°₁₁ (B. 36, 1871 C. 1903 [2] 286). C₉H₁₀Cl₂ *2) αβ-norm. Dibrompropylbenzol. Sm. 70° (C. r. 139, 482 C. 1904 [2] $C_9H_{10}Br_2$ 1038). *5) 4- $[\alpha\beta$ -Dibromäthyl]-1-Methylbenzol. Sm. 45° (B. 36, 1637 C. 1903 $[2]^{2}6).$ *11) r-2-Methyl-2, 3-Dihydroindol. Sd. 225-2260 (Soc. 85, 1331 C. 1904) C9H11N [2] 1657). 21) a-d-1-Amido-2,3-Dihydroinden. d-Bromcamphersulfonat, d-Chlorcamphersulfonat (Soc. 83, 878 C. 1903 [2] 504; Soc. 83, 908 C. 1903 22) β-d-1-Amido-2,3-Dihydroinden. d-Bromonmhoroniforest d-Chlorcamphersulfonat (Soc. 83, 890 C. 1903 : i; · . 5), [2] 504). 23) \alpha-1-1-Amido-2,3-Dihydroinden. d-Bromcamphersulfonat, d-Chlorcamphersulfonat (Soc. 83, 879 C. 1903 [2] 504; Soc. 83, 912 C. 1903 [2] 504). 24) β -1-1-Amido-2,3-Dihydroinden. d-Bromcamphersulfonat, d-Chlorcamphersulfonat (Soc. 83, 890 C. 1903 [2] 504; Soc. 83, 912 U. 1903 [2] 504). 25) d-2-Methyl-2, 3-Dihydroindol. Sd. 225°? (Soc. 85, 1334 C. 1904 [2] 1657). 26) 1-2-Methyl-2,3-Dihydroindol. Sd. 228-229. HCl, d-Bromcamphersulfonat (Soc. 85, 1331 C. 1904 [2] 1657). 14) γ-Brom-α-Phenylpropan. Sd. 110°₁₂ (C. r. 138, 1049 C. 1904 [1] 1493).
*1) 4-Jod-1-Propylbenzol. Sd. 240—242° (A. 327, 303 C. 1903 [2] 353).
7) 4-Jod-3-Aethyl-1-Methylbenzol. Sm. 34°; Sd. 222—225° (J. pr. [2] $C_9H_{11}Br$ $C_9H_{11}J$

69, 436 C. 1904 [2] 589).
*1) α-Oxypropylbenzol. Sd. 106—108°₁₈ (B. 37, 2085 C. 1904 [2] 182).

*18) Methyläther d. 2-Oxy-1-Aethylbenzol. Sd. 186-1880, 36, 3591

 $C_{\alpha}H_{12}O$ *21) Aethyläther d. Oxymethylbenzol. Sd. 187—189°₇₃₂ (B. 37, 3190 C. 1904 [2] 1109; B. 37, 3695 C. 1904 [2] 1387).
*25) Propylphenyläther. Sd. 190—191° (B. 36, 2062 C. 1903 [2] 357). *26) Isopropylphenyläther. Sd. 176° (B. 36, 2062 C. 1903 [2] 357). *32) $4 - [\alpha - Oxyathyl] - 1 - Methylbenzol. Sd. 219<math>^{\circ}_{766}$ (B. 36, 1635 C. 1903) [2] [26). *34) Methyläther d. 4-Oxy-1-Aethylbenzol. Sd. $196-197_{763}^{\circ}$ (B. 36, 3593) C. 1903 [2] 1366). 35) 2-Oxymethyl-1, 4-Dimethylbenzol. Sd. 232-2340 (G. 32 [2] 486 C. 1903 [1] 831). 36) Methyläther d. β -Oxy- α -Phenyläthan. Sd. 189—190° (C. r. 138, 814) C. 1904 [1] 1195). 37) Methyläther d. 3-Oxy-1-Aethylbenzol. Sd. 196-1970758 (B. 36, 3592 C. 1903 [2] 1366). 38) Methyläther d. 2-Methyl-1-Oxymethylbenzol. Sd. 187-1880, 180 (D.R.P. 154658 C. 1904 [2] 1355). 39) Methyläther d. 5-Oxy-1,3-Dimethylbenzol. Sd. 1930 (R. 21, 328) C. 1903 [1] 78). *10) 5-Oxy-2-Oxymethyl-1,4-Dimethylbenzol (B. 36, 1889 C. 1903 [2] $C_9H_{12}O_2$ 291). *32) \$\alpha\$-Camphylsäure. Sm. 148°; Sd. 248°, 40 (Soc. 83, 849 C. 1903 [2] 571). *33) \$\beta\$-Camphylsäure. Sm. 105—106°; Sd. 248°, 40 u. ger. Zers. Ag (Soc. 83, 867 C. 1903 [2] 573). *38) 1-Oxy-4-Keto-1,3,5-Trimethyl-1,4-Dihydrobenzol (B. 36, 2033 C. 1903 [2] 360). *41) $i-\alpha-Oxy-\alpha-[2-Oxyphenyl]$ propan. Sd. 125—130°_{0.25} (B. 36, 2586) C. 1903 [2] 621).

*42) αβ-Dioxy-β-Phenylpropan. Sm. 38° (C. r. 137, 1261 C. 1904 [1] 445).

48) 3,4-Dioxy-1-Isopropylbenzol. Sm. 78°; Sd. 270—272° (C. r. 138, 1702 C. 1904 [2] 436). 49) 4, 6-Dioxy-1, 2, 3-Trimethylbenzol. Sm. 163-164° (A. 329, 309 C. 1904 [1] 794). 50) 3,5-Dioxy-1,2,2-Trimethylbenzol. Sm. 160—162° (M. 24,913 C. 1904) [1] 513). 51) 2-Oxy-5-Oxymethyl-1,3-Dimethylbenzol. Sm. 104,5-105° (B. 36, 2035 *C.* **1903** [2] 360). 52) 2-Methyläther d. 2-Oxy-1-[α-Oxyäthyl]benzol. Sd. 119-120°₁₁
 (B. 36, 3588 C. 1903 [2] 1365). 53) 3-Methyläther d. 3-Oxy-1- $[\alpha$ -Oxyäthyl] benzol. Sd. 132—133 $^{0}_{12}$ (B. 36, 3591 C. 1903 [2] 1366). 54) 4-Methyläther d. 4-Oxy-1- $[\alpha$ -Oxyäthyl] benzol. Fl. (B. 36, 3592) C. 1903 [2] 1366). 55) 5-Methyläther d. 2,5-Dioxy-1,3-Dimethylbenzol. Sm. 77-77,50 (B. 36, 2040 C. 1903 [2] 360). 56) 1-Oxy-4-Keto-1, 2, 5-Trimethyl-1, 4-Dihydrobenzol. Sm. 116—116, 5° (B. 36, 2038 C. 1902 [2] 360; B. 36, 1627 C. 1903 [2] 31). 57) β -Methyl- $\beta\zeta$ -Heptenin- η -Carbonsäure. Sd. 160—164° (C. r. 134, 554 C. 1903 [1] 825). 58) 2-Methyl-R-Penten-4-[Aethyl-β-Carbonsäure]. Sm. 64-65° (B. 36, 950 C. 1903 [1] 1022). 59) Lakton (aus Umbellulon). Sd. 217—221° (Soc. 85, 645 C. 1904 [1] 1608 C. 1904 [2] 330).
60) Verbindung (aus 2,6-Dimethylphenylhydroxylamin). Sm. 139,5—140,5° (B. 36, 2040 C. 1903 [2] 360). *5) 2,4,6-Trioxy-1,3,5-Trimethylbenzol + 3H₂O. Sm. 184° (wasserfrei) CoH,Os (A. **329**, 281 C. **1904** [1] 796). *11) Trimethyläther d. 1,2,3-Trioxybenzol. Sm. 47°; Sd. 235° (A. 327, 116 C. 1903 [1] 1214; M. 25, 516 C. 1904 [2] 1118). *13) Trimethyläther d. 1,3,5-Trioxybenzol. Sm. 52° (Ar. 242, 505 C. **1904** [2] 1386). *16) α -Phenyläther d. $\alpha\beta\gamma$ -Trioxypropan. Sm. 56° (B. 36, 2064 C. 1903

*26) Aethylester d. 2,5-Dimethylfuran-3-Carbonsäure. Sd. 210-2140

[2] 357).

(B. 37, 2188 C. 1904 [2] 240).

*32) 2-Methyläther d. 2,4,6-Trioxy-1,3-Dimethylbenzol + H₂O. Sm. 148—150° (A. 329, 284 C. 1904 [1] 796). C9H,2O8 34) 3,4-Dimethyläther d. 3,4-Dioxy-1-Oxymethylbenzol. Sd. 296-2970, 180 (B. 37, 3403 C. 1904 [2] 1318). 35) 4,6-Dioxy-2-Keto-1,1,5-Trimethyl-1,2-Dihydrobenzol. Sm. 180 bis 181° (M. 24, 111 C. 1903 [1] 967). 36) Methylfilicinsäure. Sm. 178—180° (A. 329, 292 C. 1904 [1] 796). 37) Aethylester d. 2,4-Dimethylfuran-3-Carbonsäure. Sd. 970 (B. 35, 1539, 1545). - *III, 507. 29) 2,6-Diketohexahydrobenzol-1-Propionsäure. Sm. 181-182° (B. 37, C.H.,O. 3823 C. 1904 [2] 1607). 16) β -Hepten- $\gamma\zeta$ -Oxyd- $\alpha\beta$ -Dicarbonsäure (Valaktenbernsteinsäure). Ba, C.H.O. Ag₂ (A. 331, 193 C. 1904 [1] 1213). 17) βη-Anhydrid d. β-Methylpentan-βη ε-Tricarbonsäure. Sm. 155—157°; Sd. 255° (Soc. 85, 136 (C. 1904 [1] 727).
20) Monoäthylester d. 1-Methyl-R-Trimethylen-2, 2, 3-Tricarbonsäure + 2[3]H₂O. Sm. 70—71°. Ag₂ (B. 17, 2834; B. 36, 1086 C. 1903 $C_9H_{12}O_8$ [1] 1126). — I, *819*. 6) Succinglutarperoxyd. Sm. 107° u. Zers. (Am. 32, 64 C. 1904 [2] 766). C9H12O8 19) α -Imido- β -Amido- α -Phenylpropan (A. 291, 270). — *III, 113. 20) Aethyl-2-Amidobenzylidenamin. Fl. (B. 37, 3656 C. 1904 [2] 1514). 21) 1-Hydrazonmethyl-4-Aethylbenzol. Sm. 101° (C. r. 136, 558 C. C, H,2 N, 1903 [1] 832). 22) 2-Methyl-1, 2, 3, 4-Tetrahydro-1, 3-Diazin. Pikrat (B. 36, 812 C. 1903) [1] 979). 1) 3,5-Dichlor-1,1,6-Trimethyl-1,2-Dihydrobenzol. Sd. 120-125₃₁ C₂H₁₂Cl₂ (C. 1904 [1] 88). *9) 4-Amido-1-Propylbenzol. Sd. 224-226° (A. 327, 301 C. 1903 C9H18N [2] 353). 51) 4-Amido-3-Aethyl-1-Methylbenzol. Sd. 218-220°. H₂SO₄ (J. pr. [2] **69**, **4**36 *C*. **1904** [2] 589). 52) 4-tert. Butylpyridin. Sd. 196—197°. (2 HCl, PtCl₄), (HCl, AuCl₂) (B. 36, 2911 C. 1903 [2] 890). 53) Nitril d. r-α-Campholytsäure. Sd. 200-205° (C. r. 138, 696 C. 1904 *5) Isocamphoron (Soc. 81, 1526 C. 1903 [1] 157) $C_9H_{14}O$ *6) Campherphoron (A. 331, 318 C. 1904 [1] 1567). *26) Pulegenon. Sd. 189—190° (A. 327, 133 C. 1903 [1] 1412). 28) β -[4-Ketohexahydrophenyl] propen. Sd. 184—186° (Soc. 85, 670 C. 1904 [2] 331). 29) Pinophoron. Sd. 203-205° (B. 37, 239 C. 1904 [1] 726). 30) Vetirol. Sd. 150-155% (D.R.P. 142416 C. 1903 [2] 229). 31) Aldehyd d. α-Oktin-α-Carbonsäure. Sd. 90-92013 (C. r. 138, 1341 C. 1904 [2] 187). *9) i-a-Campholytsaure. Sd. 160—162°45 (Soc. 83, 853 C. 1903 [2] 572; Soc. 85, 147 C. 1904 [1] 728).
*17) Isocampholakton. Sm. 32° (Am. 32, 290 C. 1904 [2] 1222). C9H14O2 *44) α-Oktin-α-Carbonsäure. Sd. 154—156° (C. r. 136, 554 C. 1903 [1] 825; Bl. [3] 29, 658 C. 1903 [2] 487). 57) ζ -Methyl- α -Heptin- α -Carbonsäure. Sm. -16 bis -12° ; Sd. 169 bis 172° 88 (C. r. 136, 554 C. 1903 [1] 825). 58) 1,3-Dimethyl-1,2,3,4-Tetrahydrobenzol-2-Carbonsäure. Fl. (D.R.P. 148 206 C. 1904 [1] 485). 59) Lakton d. 5-Oxy-1, 3-Dimethylhexahydrobenzol-2-Carbonsaure. Sd. 129—131°₁₂ (D.R.P. 148207 C. 1904 [1] 486).
60) isom. Lakton d. 5-Oxy-1, 3-Dimothylkexahydrobenzol-2-Carbonsäure. Sd. 129—131°₁₂ (D.R.P. 18207 C. 1904 [1] 486).
61) Lakton d. i-5-Oxy-1, 1, 2-Trimethyl-R-Pentamethylen-2-Carbonsäure (Isocampholakton). Sd. 155-157° (C. 1903 1 923; Soc. 85, 143 C. 1904 [1] 728). 62) Methylester d. ε -Methyl- α -Hexin- α -Carbonsäure. Sd. 98–99 $^{\circ}_{18}$ (C. r. 136, 553 C. 1903 [1] 825).

63) Aethylester d. α -Hexin- α -Carbonsäure. Sd. 106—108 $^{\circ}_{24}$ (C. r. 136,

553 C. 1903 [1] 824).

64) Aethylester d. γγ-Dimethyl-α-Butin-α-Carbonsäure. Sd. 75% (C. r. 136, 553 C. 1903 [1] 824).
*30) Aethylester d. 4-Keto-l-Methyl-R-Pentamethylen-3-Carbonsäure. $\mathbf{C}_{9}\mathbf{H}_{14}\mathbf{O}_{2}$ $C_9H_{14}O_3$ Sd. 118°₁₈ (C. r. 136, 1613 C. 1903 [2] 440). *32) Aethylester d. 2-Keto-l-Methyl-R-Pentamethylen-3-Carbonsäure. Sd. 113°₉₂ (C. 1903 [2] 23).

35) i-Camphononsäure. Sm. 232° (Am. 28, 484 C. 1903 [1] 329).

36) Säure (aus Umbellulon). Ba (Soc. 85, 645 C. 1904 [2] 330).

37) 5-Keto-1, 3-Dimethylhexahydrobenzol-1-Carbonsäure + H₂O. Sm. 124—125° (wasserfrei) (B. 37, 4062 C. 1904 [2] 1650; B. 37, 4071 C. 1904 [2] 1652)**.** 38) Methylester d. 3-Keto-1, 2-Dimethyl-R-Pentamethylen-2-Carbonsäure. Sd. 105—106°₁₅ (*C. r.* 138, 210 *C.* 1904 [1] 662). 39) Aethylester d. 4-Ketohexahydrobenzol-1-Carbonsäure. Sd. 158°₄₀ (Soc. 85, 427 C. 1904 [1] 1439). *31) Aethylester d. βs -Diketohexan- γ -Carbonsäure. Sd. 161—163 $^{\circ}_{50-51}$ C9H14O4 (C. 1903 [2] 1281). *35) Diäthylester d. Propen-αγ-Dicarbonsäure. Sd. 129—131°₁₆ (Bl. [3] 29, 1012 C. 1903 [2] 1315). *61) Aethylester d. αγ-Diketohexan-α-Carbonsäure. Sd. 228—232° u. Zers. Na, Cu (Soc. 81, 1490 C. 1903 [1] 138). *63) Aethylester d. ηε-Diketo-β-Methylpentan-ε-Carbonsäure. Sd. 230 bis 232° u. Zers. Na, Ca, Ba, Cu, Co (Soc. 81, 1486 C. 1903 [1] 138).
64) Hexahydrobenzol-1-Carbonsäure-3-Methylcarbonsäure. Sm. 158° (B. 36, 3611 C. 1903 [2] 1372). 65) βδ - Lakton d. δ - Oxypentan - βγ - Dicarbonsäure - γ - Aethylester. Sd. 142°₁₄ (B. 37, 1616 C. 1904 [1] 1403).
 66) βδ-Lakton d. β - Oxy-β-Methylbutan-αδ-Dicarbonsäure-α-Aethylester. Sd. 285—287° (B. 36, 953 C. 1903 [1] 1017). 67) δ-Aethylester d. β-Methyl-β-Buten-γδ-Dicarbonsäure. Sm. 118 bis 120° (J. pr. [2] 67, 199 C. 1903 [1] 869).
*5) Trioxydihydro-α-Camphylsäure. Sm. 148-150° u. Zers. Ba (Soc. 83, C9H14O5 855 C. 1903 [2] 572). 26) δ -Ketoheptan- α η -Dicarbonsäure. Sm. 101—102° (u. Sm. 108—109°) (B. 37, 3817 C. 1904 [2] 1606). 27) Ketodioxyhydro- β -Camphylsäure. Fl. (Soc. 83, 872 C. 1903 [2] 574). 33) isom. β -Methylpentan- $\beta\gamma$ -Tricarbonsäure. Sm. 155—157° (C. 1903 [1] 923; Soc. 85, 135 C. 1904 [1] 727). C9H14O8 34) γ -Methylpentan- $\alpha \delta \delta$ -Tricarbonsäuré. Sm. 159° (C. 1903 [2] 1425). 35) Säure (aus Bernsteinsäuremonoäthylester) (Bl. [3] 29, 1046 C. 1903 [2] 1424). *9) Nitril d. β-Methyl-β-Hepten-ζ-Carbonsäure. Sd. 202° u. Zers. (A. 328, 345 C. 1903 [2] 1124).
10) Nitril d. βε-Dimethyl-β-Hexen-ζ-Carbonsäure. Sd. 216—217° (A. 329, 102 C. 1903 [2] 1071).
*21) Aethyläther d. 1-Oxy-2,3,4,5-Tetrahydro-R-Hepten. Sd. 173 bis 175° (A. 327, 69 C. 1903 [1] 1124).
*22) B. Teta J. Webb. J. B. Leventhylan (Diladramalarman). C9H15N CoH18O *23) 2-Keto-l-Methyl-3-Isopropyl-R-Pentamethylen (Dihydropulegenon). Sd. 184—185° (A. 327, 135 C. 1903 [1] 1412; A. 329, 108 C. 1903 [2] 1071; B. 37, 237 C. 1904 [1] 726). *27) 2-Keto-1,1,4-Trimethylhexahydrobenzol (Pulenon). Sd. 1830 (A. 329, 85 C. 1903 [2] 1370). 28) Pinocamphorylalkohol. Sd. 203 (B. 37, 240 C. 1904 [1] 726) 29) 5-Keto-4-Isopropyl-1-Methyl-R-Pentamethylen. Sd. 180-181° (C. 1904 [2] 1045). *1) 2-Oxy-4-Acetyl-1-Methylhexahydrobenzol. Sm. 58-59°; Sd. 144 C9H16O2 bis 145°₁₈ (B. 36, 766 C. 1903 [1] 836). *36) $\beta \delta$ -Diketononan (Caproylaceton). Sd. 100°_{20} . Cu (Bl. [3] 27, 1086 C. 1903 [1] 225). *38) β-Methyl-β-Hepten-ζ-Carbonsäure. Sd. 242° (A. 328, 347 C. 1903 [2] 1124). 54) 1-Oxy-4-Keto-1-Isopropylhexahydrobenzol. Sd. 177—180° 100 (Soc. 85, 670 C. 1904 [2] 331]. 55) $\gamma \delta$ -Diketononan. Sd. 77—80°₁₀ (BL [3] 31, 1176 C. 1904 [2] 1701).

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56) γε-Diketo-β-Methyloktan (Butyrylisobutyrylmethan). Sd. 89-90°20.

 $C_0H_{16}O_2$

 $C_9H_{18}O_5$

Cu (Bl. [3] 27, 1094 C. 1903 [1] 226). 57) β_{e} -Dimethyl- β -Hexen- ζ -Carbonsäure. Sd. 143—147 $^{0}_{23}$. Ag (A. 329, 102 C. 1903 [2] 1071). 58) Acetat d. 1-Oxy-1-Methylhexahydrobenzol. Sd. 176°_{700} (C. r. 138, 1323 C. 1904 [2] 219). *4) γ-Keto-β-Methylheptan-ζ-Carbonsäure. Sd. 265°. Ag (A. 327, 142 C. 1903 [1] 1412; B. 37, 238 C. 1904 [1] 726). $C_9H_{16}O_8$ *10) α -Oxydihydrocampholytische Säure. Sd. 180—185 $^{\circ}_{25}$ (Am. 32, 289 C. 1904 [2] 1222). *22) Aethylester d. 2-Oxyhexahydrobenzol-1-Carbonsäure. Sd. 100 bis 103°, (B. 37, 1278 C. 1904 [1] 1335). *54) Methylester d. β-Ketoheptan-α-Carbonsäure. Sd. 118°₁₉ (Bl. [3] 27, 1092 C. 1903 [1] 226). *55) Aethylester d. δ-Oxy-β-Hexen-s-Carbonsäure. Sd. 110-112° (C. 1903 [2] 556). *57) Aethylester d. ε-Keto-β-Methylpentan-ε-Carbonsäure. Sd.93—94°₁₂ (Bl. [3] 31, 1152 C. 1904 [2] 1707). 62) 5-Oxy-1,3-Dimethylhexahydrobenzol-2-Carbonsäure. Fl. (D.R.P. 148207 C. 1904 [1] 486). 63) cis-2-Oxy-1,1,2-Trimethyl-R-Pentamethylen-5-Carbonsäure. Fl. (Soc. 85, 144 C. 1904 [1] 728). 64) β -Oxy- α -Heptenmethyläther- α -Carbonsäure. Sm. 54,5° (C. r. 138, 287 *C.* **1904** [1] 719). 65) ζ -Keto- β -Methylheptan- γ -Carbonsäure. Sd. 156 $^{0}_{14}$ (B. 37, 239 C. 1904 [1] 726). 66) Isocampholaktonsäure. Ag (Am. 32, 290 C. 1904 [2] 1222). 67) Säure (aus Dihydropulegenon). Sd. 154-155° (A. 327, 139 C. 1903 68) Methylester d. β -Keto- γ -Aethylpentan- γ -Carbonsäure (M. d. Diäthylacetessigsäure). Sd. 206—207 $^{0}_{750}$ (C. 1903 [1] 225; Bl. [3] 29, 954 C. acetessigsäure). 1903 [2] 1111). 69) Isobutylester d. α-Ketobutan-α-Carbonsäure. Sd. 87—88 11 (Bl. [3] **31**, 1150 *C*. **1904** [2] 1706). 70) Capronat d. α -Oxy- β -Ketopropan. Sd. 107—108 $^{\circ}_{10}$ (C. r. 138, 1275 C. 1904 [2] 93). C9H16O4 *24) Diäthylester d. Propan- $\alpha\alpha$ -Dicarbonsäure (C. r. 137, 714 C. 1903 [2] 1423). 62) α -Cyklogeraniolenozonid. Sd. 80—100 $^{\circ}_{10}$ (B. 37, 849 C. 1904 [1] 63) β -Methylhexan- $\beta \varepsilon$ -Dicarbonsäure. Sm. 114—115°. Ag₂ (A. 329, 92) C. 1903 [2] 1071). 64) γ -Methylhexan- α δ -Dicarbonsäure. Sm. 97—98° (C. r. 138, 211 C. **1904** [1] 663). 65) 3,5 - Dioxyhexahydrobenzoldimethyläther - 1 - Carbonsäure. (D.R.P. 81443). — *II, 1023. 66) Monomethylester d. $\beta\gamma$ -Dimethylbutan- $\beta\gamma$ -Dicarbonsäure. Sm. 63°. Ag (Soc. 85, 554 C. 1904 [1] 1485).

(C. 1903 | 2 | 288).
 Aethylester d. α-Acetoxyl-β-Methylpropan-β-Carbonsäure. Sd. 202°₇₅₀ (Bl. [3] 31, 125 C. 1904 [1] 644).
 Tsphylylester d. Leg-Acetoxylpropions. Sd. 90, 918 (C. 1903).

67) Monoäthylester d. β -Methylbutan- $\alpha\delta$ -Dicarbonsäure. Sd. 164–166°

69) Isobutylester d. 1- α -Acetoxylpropionsäure. Sd. 90—91 $_{12}^{0}$ (*C.* 1903 [2] 1419).

70) Diacetat d. βδ-Dioxypentan. Sd. 200—210° u. Zers. (C. 1904 [1] 1327).
 *3) γ-Oxy-βδ-Dimethylpentan-βδ-Dicarbonsäure (Bl. [3] 31, 118 C. 1904

[1] 643).
*9) Diäthylester d. β-Oxypropan-αη-Dicarbonsäure. Sd. 156—157° 28
(Bl. [3] 29, 1014 C. 1908 [2] 1315).

19) δ -Oxyheptan- $\alpha\eta$ -Dicarbonsäure. Sm. 104—105°. Ba + 4H₂O (B. 37, 3820 C. 1904 [2] 1606).

20) α -Oxy- β -Isopropylbutan- α δ -Dicarbonsäure. Fl. (B. 36, 1751 C. 1903 [2] 117).

 $\mathbf{C}_{9}\mathbf{H}_{18}\mathbf{O}_{5}$ 21) α -Aethylester d. β -Oxy- β -Methylbutan- $\alpha\delta$ -Dicarbonsäure. Ag (B. 36, 953 C. 1903 [1] 1017). $C_9H_{16}O_6$ 8) $\beta\zeta$ -Dimethylheptan- $\beta\gamma$ - $\varepsilon\zeta$ -Diozonid. Fl. (B. 37, 847 C. 1904 [1] 1145). 9) Lakton d. Glykontrimethyläthersäure. Sd. 160° (Soc. 83, 1040 C. 1903 [2] 347, 659). 13) 1-Methyl-4[oder 5]-Amylimidazol. Sd. 158—160°₁₀. (2HCl, PtCl₄), (HCl, AuCl₈), Pikrat (Soc. 83, 444 C. 1903 [1] 930, 1143).
25) r-α-Amidocampholen. Sd. 184—185° (C. r. 138, 696 C. 1904 [1] $C_9H_{16}N_2$ $C_9H_{17}N$ 1087). 26) β-Aethylchinuclidin. Sd. 190—192°. HCl, (2HCl, PtCl₄), (HCl, AuCl₈), Pikrat (B. 37, 3245 C. 1904 [2] 996). C9H18O *2) ζ -Oxy- $\beta\zeta$ -Dimethyl- β -Hepten. Sd. 73—75°_{10.5} (B. 37, 845 C. 1904) [1] 1145). *4) δ -Oxy- δ es-Trimethyl- α -Hexen (C. 1903 [2] 1415). *17) β -Ketononan. Sd. 194,5—195,5°₇₆₃ (Soc. 81, 1588 C. 1903 [1] 29, 162; B. 36, 2547 C. 1903 [2] 654). *24) Oxyd (aus $\alpha \gamma$ -Dioxy- $\beta \beta \varepsilon$ -Trimethylhexan). Sd. 139—140° (M. 24, 530 C. 1903 [2] 869). *27) δ -Oxy- δ -Methyl- α -Okten (C. 1903 [2] 1415). *34) 2-Oxy-1-Methyl-3-Isopropyl-R-Pentamethylen. Sd. 185—192° (B. 37, 236 C. 1904 [1] 726).
*35) 2-Oxy-1,1,4-Trimethylhexahydrobenzol (Pulenol). Sd. 187—189° (A. 329, 87 C. 1903 [2] 1071).
*36) Dihydropulegenol. Sd. 77—78°₁₅ (A. 327, 135 C. 1903 [1] 1412).
39) δ-Oxy-δζ-Dimethyl-α-Hepten. Sd. 173°₇₈₅ (C. 1904 [2] 185).
40) α-Oxyisopropylhexahydrobenzol. Sd. 96°₂₀ (C. r. 139, 345 C. 1904 [2] 77ΔΔ. 41) 1-Oxy-1-Propylhexahydrobenzol. Sd. 180°_{700} u. Zers. (C. r. 138, 1321 C. 1904 [2] 219). 42) Methyläther d. β-Oxy-α-Okten. Sd. 166—168° (C. r. 138, 287 C. 1904 [1] 719; Bl. [3] 31, 524 C. 1904 [1] 1552).
43) Aethyläther d. β-Oxy-α-Hepten. Sd. 161—161,5 (C. r. 138, 287 C. 1904 [1] 719; Bl. [3] 31, 523 C. 1904 [1] 1551.

44) δ -Ketononan. Sd. 75—76 $^{\circ}_{10}$ (Bl. [3] 31, 1158 C. 1904 [2] 1708).

45) β -Keto- δ -Methyloktan. Sd. 184 $^{\circ}_{769}$ (Soc. 81, 1595 C. 1903 [1] 15, 46) Aldehyd d. Oktan-β-Carbonsäure. Sd. 92°₂₈ (C. r. 138, 92 C. 1904) [1] 505). *3) Pelargonsäure. Sm. 9—11,5°; Sd. 251—254°. Ca + H₂O (Bl. [3] 29, 664 C. 1903 [2] 487; G. 34 [2] 54 C. 1904 [2] 693).
*4) Oktan-β-Carbonsäure. Sd. 136°₁₇ (Bl. [3] 31, 748 C. 1904 [2] 303).
*9) Methylester d. Caprylsäure. Sd. 95°₂₅ (Bl. [3] 29, 1120 C. 1904 [1] $C_9H_{18}O_2$ 259). 50) 5-Oxy-2-Oxymethyl-1, 3-Dimethylhexahydrobenzol. Sd. 159—161 14 (D.R.P. 148207 C. 1904 [1] 486). 51) Aethyläther d. ζ -Oxy-s-Keto- β -Methylhexan. Sd. 92—93°₁₈ (C. r. 138, 91 C. 1904 [1] 505). 52) Oxyd (aus d. Glycerin d. Methylallylnormalbutylcarbinol). bis 232°₇₄₃ (C. 1904 [2] 185). 53) Isoheptylester d. Essigsäure (Acetat d. ζ-Oxy-β-Methylhexan). Sd. 183 bis 185°₇₄₈ (C. r. 136, 1261 C. 1903 [2] 106).
 41) Triäthyläther d. αγγ-Trioxypropan. Sd. 190—193° u. Zers. (B. 36, 3668 C. 1903 [2] 1312). $C_9H_{18}O_8$ 42) α-Oxyoktan-α-Carbonsäure. Sm. 70° (C. r. 138, 698 C. 1904 [1] 1066). 43) γ -Oxybutteramyläthersäure. Sd. 148°₁₅ (C. r. 136, 96 C. 1903 [1] 455). 44) Aethylester d. α -Oxy- β -Methylpropanäthyläther- β -Carbonsäure. Sd. 75 $^{\circ}_{22}$ (Bl. [3] 31, 128 C. 1904 [1] 644). C9H18O6 5) Trimethyläther d. Glykose. Sd. 1940, (Soc. 83, 1039 C. 1903 [2] 347,

4) $\beta \zeta$ -Dibrom- $\beta \zeta$ -Dimethylheptan. Sm. 35° (B. 37, 846 C. 1904 [1] 1145).

 $C_9H_{18}Br_2$

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30) 6-Methylamido- β 6-Dimethyl- β -Hexen. Sd. 167—168°. (2HCl, PtCl₄) $C_9H_{19}N$ (B. 36, 3369 C. 1903 [2] 1187). Sm. 190°. Pikrat (C. r. 136, 1143 31) r-a-Dihydrocampholenamin. C. 1903 [1] 1410). *1) a-Oxynonan. Sd. 215° (C. r. 138, 149 C. 1904 [1] 577; Bl. [3] 31, 674 $C_9H_{20}O$ C. 1904 [2] 184). *3) δ-Oxy-δ-Aethylheptan (C. 1903 [2] 1415).

*7) Methyläther d. α-Oxyoktan. Sd. 75% (C. r. 136, 1677 C. 1903 [2] 419; Bl. [3] 31, 673 C. 1904 [2] 184).

*12) β-Oxyonan. Sd. 195—196% (193—194%) (Soc. 81, 1592 C. 1903 [1] 29, 162; B. 36, 2548 C. 1903 [2] 654). 16) α -Oxy- β -Methyloktan. Sd. 98—99 $^{\circ}_{18}$ (Bl. [3] 31, 748 C. 1904 [2] 303). 17) ε -Oxy- $\beta \varepsilon$ -Dimethylheptan. Sd. 175 $^{\circ}$ (C. 1904 [1] 1496). 18) Butyläther d. α -Oxypentan (Butylamyläther). Sd. 157 $^{0}_{756}$ (C. r. 138, 1610 Anm. C. 1904 [2] 429).
7) αι-Dioxynonan. Sm. 45,5°; Sd. 177°₁₅ (M. 25, 1085 C. 1904 [2] 1698). $C_9H_{20}O_2$ 8) α -Aethyläther d. $\alpha\beta$ -Dioxy- β -Aethylpentan. Sd. 180—184° (\overline{C} . r. 138, 92 C. 1904 [1] 505). 11) $\delta \zeta \eta$ -Trioxy- $\beta \delta$ -Dimethylheptan. Fl. (C. 1904 [2] 185) CoH20Oa 12) Aldehyd d. α -Oxy- α -[2-Furanyl]- β -Methylpropan- β -Carbonsäure (M. 22, 311). — *III, 520. *6) Tripropylamin. (2 HCl, PtCl₄) (C. 1904 [1] 923). $C_9H_{21}N$ *10) β -Amidononan. Sd. $69-69,5^{\circ}_{11}$. (2 HCl, PtCl₄), Pikrat (B. 36, 2555) C. **190**3 [2] 655). *1) I, 3, 5-Triāthylhexahydro-1, 3, 5-Triazin (R-Trimethylentriāthyltriamin). Sd. 196—198° (200—210°). HBr, HJ, Pikrat, Dipikrat (A. 334, 217 C. 1904 [2] 899; D.R.P. 139 394 C. 1903 [1] 678). $\mathbf{C}_{9}\mathbf{H}_{21}\mathbf{N}_{8}$ *2) isom. 1,3,5-Triäthylhexahydro-1,3,5-Triazin. (2HCl, PtCl₄), HBr, HJ, (HJ + CHJ₃), Pikrat (A. 334, 220 C. 1904 [2] 899).

*2) Di[Diäthylamido]methan. Sd. 168° (B. 37, 4088 C. 1904 [2] 1724).

1) Zinnmethyläthyldipropyl. Sd. 183—184° (G. 1904 [1] 353).

2) Zinnmiäthylppopyl. Sd. 183—184° (G. 1904 [1] 353). $C_9H_{22}N_2$ $C_9H_{22}Sn$

2) Zinntriäthylpropyl. Sd. 195°₇₈₄ (C. 1904 [1] 353). - 9 III -C9H1OCl4 2) 1,1,3,3-Tetrachlor-2-Keto-2,3-Dihydroinden. Sm. 98° (A. 334, 356 C. 1904 [2] 1054). CoH4OcCl2 2) 6,8-Dichlor-4-Oxy-1,2-Benzpyron. Sm. 284° u. Zers. (B. 35, 464 C. 1903 [1] 636). 17) 2,8,9-Tribromchinolin. Sm. 165° (J. pr. [2] 68, 102 C. 1903 [2] 445). $C_9H_4NBr_8$ *1) Chlorid d. Phenylpropiolsäure. Sd. 119012 (Soc. 85, 1324 U. 1904 [2] $\mathbf{C}_{0}\mathbf{H}_{5}\mathbf{OCl}$ 1645)CoH, Ocla 4) β -Chlor- β -[2, 4-Dichlorphenyl] akrylsäure. Sm. 173° (B. 37, 220, 224) C. **1904** [1] 588). 2) Acetat d. 3,4,5,6-Tetrabrom-2-Oxy-1-Brommethylbenzol. Sm. 156° $\mathbf{C}_{9}\mathbf{H}_{5}\mathbf{O}_{2}\mathbf{Br}_{5}$ (A. 332, 178 Anm. C. 1904 [2] 209). 3) α , 2-Lakton d. $\beta\beta\beta$ -Trichlor- α -Oxy- α -[4-Oxyphenyl] athan-2-Carbonsaure. Sm. 197—198° (A. 296, 344). — *II, 1036. .CoH5OgCl3 $C_9H_5O_4N$ 12) Lakton d. 1- $[\beta$ -Nitro- α -Oxyāthenyl]benzol-2-Carbonsäure (Nitro- $C_9H_5O_6N_8$

methylenphtalid). Sm. 2005–205–16. 36, 577. C. 1903 [1] 710).
3) 5-Keto-3-[3,5-Dinitrophenyl]-4,5-Dihydroisoxazol. Sm. 173-1750 u. Zers. (J. pr. [2] 69, 463 C. 1904 [2] 595). 12) 1,6[oder 1,7]-Dichlorisochinolin. Sm. 95,5—96° (B. 37, 1977 C. 1904 CoH,NCl

ſŹ1 236).

 $C_9H_6O_2N_2$ *9) Nitril d. α-Oximidobenzoylessigsäure. Sm. 120-121° (B. 37, 3468 C. 1904 [2] 1305). C 53.5 - H 3.0 - O 15.8 - N 27.7 - M. G. 202.C9H6O2N4

1) Nitril d. α -Oximido- β -Nitrosimido- α -Phenylpropionsäure. NH (B. 37, 3468 C. 1904 [2] 1305).
3) Acetat d. 2,3,5,6-Tetrachlor-4-Oxy-1-Methylbenzol. Sm. 112° (A.

CoH6OoCl4 328, 282 C. 1903 [2] 1245). *1) Acetat d. 2,4,5,6-Tetrabrom-3-Oxy-1-Methylbenzol. Sm. 1650 (A. $C_0H_6O_2Br_4$

333, 356 *C.* **1904** [2] 1116). $C_0H_6O_8N_2$ *6) 6-Nitro-2-Oxychinolin. Sm. 277° (M. 24, 100 C. 1903 [1] 922).

- 26) 6-Diazo-1,2-Benzpyron. Sulfat (Soc. 85, 1235 C. 1904 [2] 1124).
 27) 4-Nitro-3-Phenylisoxazol. Sm. 116° (A. 328, 245 C. 1903 [2] 1000). CoH6O8N8 *1) 1-Acetat d. 2,3,5,6-Tetrachlor-4-Oxy-1-Oxymethylbenzol. Sm. 170° (A. 328, 296 C. 1903 [2] 1248). C9H6O3Cl4 2) Acetat d. 2, 3, 5, 6-Tetrachlor-1-Oxy-4-Keto-1-Methyl-1, 2, 3, 4-Tetrahydrobenzol. Sm. 135° (A. 328, 302 C. 1903 [2] 1248). *8) 2,4,6-Triketo-5-Furalhexahydro-1,3-Diazin (B. 35, 4443 C. 1903 $C_9H_6O_4N_2$ [1] 423). 10) 3-Nitroindol-2-Carbonsäure. Sm. 230° u. Zers. (G. 34 [2] 65 C. 1904 [2] 710). $C_9H_6O_4Br_2$ 2) 3,5-Dibrom-2-Acetoxylbenzol-1-Carbonsäure. Sm. 156° (Soc. 81, 1481 *C.* **1903**·[1] 23, 144). 3) 3,5-Dibrom-4-Acetoxylbenzol-1-Carbonsäure. Sm. 207° (Soc. 81. 1483 C. 1903 [1] 23, 144). *5) 6-Jodchinolin. Sm. 91° (A. 332, 80 C. 1904 [2] 43). CaHaNJ $C_0H_6N_3C1$ 1) 3-Chlor-5-Phenyl-1, 2, 4-Triazin. Sm. 122-123° (B. 36, 4127 C. 1904) [1] 295). 1) $\gamma \gamma$ -Dichlor- $\alpha \beta$ -Dibrompropen. Sm. 107° (C. r. 137, 127 C. 1903 [2] 570). C9H6Cl2Br2 *2) 5-Phenylisoxazol. Sm. 18—22°; Sd. 254—256° (B. 36, 3671 C. 1903 [2] 1313; C. r. 138, 1341 C. 1904 [2] 187). CoH,ON 24) γ-Oximido-α-Phenylpropin. Sm. 108° (B. 36, 3671 C. 1903 [2] 1313).
 25) Verbindung (aus Tryptophan). Sm. 195° (C. 1903 [2] 1012). *4) Nitril d. Phenylhydrazoncyanėssigsäure. Sm. 168° (B. 36, 3666 C. 1903 [2] 1312). CoH,ON 6) Acetophenonazocyanid. Sm. 72°. K (A. 325, 149 C. 1903 [1] 644). 7) 3-Oxy-5-Phenyl-1, 2, 4-Triazin. Sm. 234° (A. 325, 152 C. 1903 [1] 644). 5) Methyläther d. 4-Oxyphenyläthin. Sd. 133—138°₂₀ (B. 36, 916 C. C₉H₇OC1 **1903** [1] 970). C9H7OCl8 1) Aldehyd d. $\alpha\alpha\beta$ -Trichlor- β -Phenylpropionsäure. Fl. (C. r. 136, 1073 C. 1903 [1] 1345). 1) Propyläther d. Pentachloroxybenzol. Sm. 49-50° (B. 37, 4019) C9H7OCL5 C. 1904 [2] 1717). *19) 6-Amido-1, 2-Benzpyron. Sm. 163-164° (Soc. 85, 1230 C. 1904 [2] C9H7O2N 1123). *38) Nitril d. 4-Acetoxylbenzol-1-Carbonsäure. Sm. 57° (B. 36, 3974 C. **1904** [1] 163). 45) 2-Nitroinden. Sm. 141° u. Zers. (B. 28, 1333; A. 336, 3 C. 1904 [2] 1465). - *II, 92. 46) 6 oder 7 - Oxy-1-Keto-1,2-Dihydroisochinolin. Sm. 270° (B. 37, 1976 C. 1904 [2] 236). 47) Phenylcyanessigsäure. Sm. 92° (Am. 32, 127 C. 1904 [2] 954). 48) Methylimid d. Benzol-1,2-Dicarbonsäure. Sm. 133-1340 (B. 37, 1945 C. 1904 [2] 123). 49) Verbindung (aus α-Oxamido-β-Phenylpropionsäure). Sm. 148—150° (B. **36**, 4310 *C*. **1904** [1] 448). 25) Nitril d. α -Nitro- β -Phenylimidopropionsäure. Sm. 215—216° (Am. $\mathbf{C}_{9}\mathbf{H}_{7}\mathbf{O}_{2}\mathbf{N}_{8}$ **29**, 270 *C*. **1903** [1] 958). 26) 3-Cyanphenylamid d. Oxaminsäure. Sm. 246° (C. 1904 [2] 102) 6) $\alpha\alpha\beta$ -Trichlor- β -Phenylpropionsäure. Sm. 112° (C. r. 136, 1073 C₉H₇O₂Cl₃ C. 1903 [1] 1345). 7) Acetat d. 2,3,5-Trichlor-4-Oxy-1-Methylbenzol. Sm. 37-38 (A. 328, 281 C. 1903 [2] 1245). *3) Allo- α -Brom- β -Phenylpropionsäure (Soc. 83, 673 C. 1903 [2] 115; CoH,OBr C. 1904 [2] 439). *4) β-Brom-β-Phenylakrylsäure (Soc. 83, 1156 C. 1903 [2] 1369). *5) Allo-β-Brom-β-Phenylakrylsäure. Sm. 159° (B. 36, 902 C. 1903 [1] 1133; Soc. 83, 1156 C. 1903 [2] 1369; C. 1904 [2] 439). *8) β -[4-Bromphenyl]akrylsäure (B. 37, 223 C. 1904 [1] 588).
 - 25) 2-Oxy-1,4-Diketo-1,2,3,4-Tetrahydroisochinolin (B. 36, 578 C. 1903 [1] 711). 26) 6 oder 7 - Oxy-1, 4-Diketo-1, 2, 3, 4-Tetrahydroisochinolin. Sm.

CoH, OaN

noch nicht bei 300° (B. 37, 1975 C. 1904 [2] 236).

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$\mathbf{C_9H_7O_3N}$	27)	β-[3-Nitrosophenyl]akrylsäure. Zers. bei 230° (B. 37, 335 C. 1904 [1] 658; Am. 32, 396 C. 1904 [2] 1498).
	28)	6-[4-Nitrosophenyl]akrylsäure. Zers. oberh. 220° (Am. 32, 393) C. 1904 [2] 1498).
$\mathbf{C}_9\mathbf{H}_7\mathbf{O}_8\mathbf{N}_8$	*13)	5-Oxy-1-Phenyl-1, 2, 4-Triazol-3-Carbonsäure. Sm. 179—180° (B. 36, 1101 C. 1903 [1] 1140).
	18)	5-Nitro-2-Acetylindazol. Sm. 158—159° (B. 37, 2585 C. 1904 2 659).
		7-Nitro-2-Acetylindazol. Sm. 131—132° (B. 37, 2576 C. 1904 2; 658).
		5-Oxy-1-Phenyl-1,2,3-Triazol-4-Carbonsäure $+$ H ₂ O. Sm. 82-83" K, K ₂ + 2H ₂ O (B. 35, 4052 C. 1903 [1] 170).
	21)	5-Keto-1-Phenyl-4, 5-Dihydro-1, 2, 3-Triazol-4-Carbonsäure. Sm. 111—112° u. Zers. (B. 35, 4051 C. 1903 [1] 170).
	22)	2-Phenyl-1,2,3,6-Oxtriazin-5-Carbonsäure. Sm. 155° u. Zers. Ag (Soc. 83, 1248 C. 1903 [2] 1421).
		Nitril d. 3-Nitrobenzoylamidoessigsäure. Sm. 118° (B. 36, 1647 C. 1903 [2] 32).
		Nitril d. 4-Nitrobenzoylamidoessigsäure. Sm. 145° (B. 36, 1647 C. 1903 [2] 32).
$C_9H_7O_8Cl_8$	1)	Acetat d. 2, 3, 5 - Trichlor - 1 - Oxy - 4 - Keto - 1 - Methyl - 1, 4 - Dihydrobenzol. Sm. 85 - 86° (A. 328, 300 C. 1903 [2] 1248).
$\mathbf{C_9H_7O_4N}$		β -[4-Nitrophenyl]akrylsäure. + H ₂ SO ₄ (R. 21, 352 C. 1903 1 150; Am. 32, 392 C. 1904 [2] 1498).
		3,4-Methylenäther d. β -Nitro- α -[3,4-Dioxyphenyl]äthen. Na (13). [3] 29, 525 C . 1903 [2] 244).
•	21)	Methylester d. 1-Oxybenzóxazol-4-Carbonsäure. Sm. 196,5% (A. 325, 324 C. 1903 [1] 770).
$\mathbf{C}_9\mathbf{H}_7\mathbf{O}_4\mathbf{N}_8$	*2)	3,9-Dinitro-2-Methylindol. Zers. bei 260° (C. 1903 [2] 121; G. 34 [2] 64 C. 1904 [2] 710).
C ₉ H ₇ O ₄ Cl ₃		Acetat d. 3,5,6-Trichlor-1,2-Dioxy-4-Keto-1-Methyl-1,4-Dihydro- benzol. Sm. 161° u. Zers. (A. 328, 306 C. 1903 [2] 1248).
$C_9H_7O_4Br$		b-Brom-2-Acetoxylbenzol-1-Carbonsäure. Sm. 168° (Sec. 81, 1482 C. 1903 [1] 23, 144).
	8)	3-Brom-4-Acetoxylbenzol-1-Carbonsäure. Sm. 155° (Soc. 81, 1483 C. 1903 [1] 23, 144).
$\mathbf{C}_{9}\mathbf{H}_{7}\mathbf{O}_{5}\mathbf{N}$	*2)	2-Oxalylamidobenzol-1-Carbonsäure + H_2O . Sm. 210° u. Zers. Ag (A. 332, 242 C. 1904 [2] 39).
		2-Nitrobenzoylessigsäure. Sm. 117—120° u. Zers. (Soc. 85, 151 C. 1904 [1] 725).
		Nitromethylphenylketon-2-Carbonsäure. Sm. 121,5°. Ag ₂ (B. 36, 575 C. 1903 [1] 710).
		2, 3-Methylenatherester d. 5-Nitro-2-Oxy-1-Methylbenzol-3-Carbonsaure. Sm. 143° (A. 330, 96 C. 1904 [1] 1076).
		3, 4-Methylenätherester d. 6-Nitro-3-Oxy-1-Methylbenzol-4- Carbonsäure. Sm. 96° (A. 330, 100 C. 1904 [1] 1076).
	26)	1-Methylester d. 3-Nitrobenzol-1-Carbonsäure-2-Carbonsäure
		aldehyd. Sm. 145—146° (M. 24, 830 C. 1904 [1] 373). 2-Methylester d. 4-Nitrobenzol-1-Carbonsäurealdehyd-2-Carbon- säure. Sm. 85—86° (M. 24, 825 C. 1904 [1] 372).
		Fseudomethylester d. 3-Nitrobenzol-1-Carbonsäure-2-Carbonsäurealdehyd. Sm. 106-108° (M. 24, 829, (1, 1904, 11, 27))
C TT C TT	20)	Carbonsäure. Sm. 101—103° (M. 24, 823 C. 1904 [1] 372)
$\mathbf{C}_{9}\mathbf{H}_{7}\mathbf{O}_{5}\mathbf{N}_{5}$		0.40,011.2,010.30,210.20,410.10.20,6.
$C_9H_7O_6N$,	4-Methyluraciliminoalloxan (Am. 31, 671 C. 1904 [2] 317). 1-Methylester d. 3-Nitrobenzol-1, 2-Dicarbonsäure. Sm. 157" (B. 35, 3861 C. 1903 [1] 154).
	. 19)	2-Methylester d. 3-Nitrobenzol-1, 2-Dicarbonsäure. Sm. 144" (B. 35, 3861 C. 1903 [1] 154)
	14)	1-Methylester d. 4-Nitrobenzol-1,2-Dicarbonsäure. Sm. 129" (M. 24, 828 C. 1904 [1] 373).
	17)	1,3-Methylbetaïn d. Pyridin-2,3,4-Tricarbonsäure + H ₂ O (M. 24, 712 C. 1904 [1] 218).

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18) 2-Methylester d. 4-Nitrobenzol-1, 2-Dicarbonsäure. Sm. 140-1420
 CoH, OoN
                   (M. 24, 827 C. 1904 [1] 373).
                3) 5-Methylpurpursäure (Am. 31, 678 C. 1904 [2] 318).
4) 7-Methylpurpursäure. NH<sub>4</sub> + H<sub>2</sub>O (Am. 31, 674 C. 1904 [2] 317).
5) Purpurmethyläthersäure (Am. 31, 679 C. 1904 [2] 318).
CoH, OaN
                3) ?-Nitro-2-Acetoxyl-4-Oxybenzol-1-Carbonsäure. Sm. 150° (M. 25, 39
C_9H_7O_7N
                   C. 1904 [1] 723).
                   C 36.4 - H 2.4 - O 37.6 - N 23.6 - M. G. 297.
C9H7O7N5
                1) Nitrodicyandichinolnitrosäure. K<sub>2</sub> (Am. 29, 118 C. 1903 [1] 709). 2) 4,6-Dinitrophenylamidoessigsäure-2-Carbonsäure. Sm. 186—187°.
C9H7O8N8
                   Ba + 2H_2O, Ag (G. 33 [2] 333 C. 1904 [1] 278).
CoH,NS
                1) 3-Thiocarbonyl-5-Phenyl-3, 4-Dihydro-1, 2, 4-Triazin.
                   (B. 36, 4128 C. 1904 [1] 295).
             1) \gamma\gamma-Dichlor-\beta-Brom-\alpha-Phenylpropen. Sm. 55°; Sd. 167—168°<sub>35</sub> (C. r. 136, 1074 C. 1903 [1] 1345). *23) 4-Oxy-2-Methyl-1,3-Benzdiazin. Sm. 239° (C. 1903 [1] 174).
CoH, CloBr
C9H8ON,
             *37) Nitril d. 2-Acetylamidobenzol-l-Carbonsäure. Sm. 132,5° (C. 1903)
                    1] 174).
             *46) Nitril d. Benzoylamidoessigsäure. Sm. 1440 (B. 36, 1646 C. 1903
                   [2] 32).
              49) 4-Amido-3-Phenylisoxazol. Sd. 179°<sub>12</sub> (A. 328, 246 C. 1903 [2] 1000).
              50) Nitril d. 3-Acetylamidobenzol-1-Carbonsäure. Sm. 130,5-1310
                   (O. 1904 [2] 101).
              51) Nitril d. 4-Acetylamidobenzol-1-Carbonsäure. Sm. 200° (C. 1903)
                   [2] 113).
              52) Amid d. Phenylcyanessigsäure. Sm. 147° (Am. 32, 122 C. 1904 [2]
              53) Verbindung (aus 5-Oxy-4-Methyl-1-Phenyl-1, 2, 3-Triazol). Zers. bei 163 bis 164° (A. 335, 101 C. 1904 [2] 1232).
               5) αβ-Dibromäthylphenylketon. Sm. 53-54^{\circ} (B. 36, 1355 C. 1903 [1]
CoHoOBro
                   1299).
               3) Pseudotetrabrompropylphenol. Sm. 112-113° (B. 37, 1558 C. 1904
C9H8OBr4
                   [1] 1438).
              *3) 2,5-Diketo-l-Phenyltetrahydroimidazol. Sm. 1970 u. Zers. (Am. 28,
\mathbf{C_9H_8O_2N_2}
             395 C. 1903 [1] 90).
*13) 1,3-Dioximido-2,3-Dihydroinden. Sm. 225° u. Zers. (G. 33 [2] 153
                   C. 1903 [2] 1272).
             *34) 3-Nitro-2-Methylindol. Sm. 248° u. Zers. Na (C. 1903 [2] 121; G.
                  34 [2] 61 C. 1904 [2] 710).
             *37) 2-Cyanmethylamidobenzol-1-Carbonsäure. Sm. 182-184° u. Zers.
              (D.R. P. 142559 C. 1903 [2] SI; B. 37, 4082 C. 1904 [2] 1723).
40) 6-Hydrazido-1,2-Benzpyron. Sm. 165—167° (Soc. 85, 1236 C. 1904
                  [2] 1124).
              41) Aldehyd d. α-Phenylazo-β-Oxyakrylsäure. Sm. 116° (B. 36, 3668
                   C. 1903 [2] 1312).
              11) 5-Amido-I-Phenyl-1,2,3-Triazol-4-Carbonsäure. Sm. 142°. K (B.
C9H8O2N4
                  35, 4059 C. 1903 [1] 171).
              13) Dichlormethylenäther d. 3,4-Dioxy-1-Aethylbenzol. Sd. 133-135%
CoH,Oclo
                  (C. r. 138, 1702 C. 1904 [2] 436).
              14) 1-[ββ-Dichlorathyl]benzol-4-Carbonsaure. Sm. 179—181° (B. 36, 3905 C. 1903 [2] 1438).
              15) Acetat d. 3,5-Dichlor-4-Oxy-1-Methylbenzol. Sm. 48° (A. 328,
                  278 C. 1903 [2] 1245).
CoH,OoCl
              *2) 1-Aethyläther d. 2,3,5,6-Tetrachlor-4-Oxy-1-Oxymethylbenzol.
                  Sm. 128° (A. 328, 296 C. 1903 [2] 1248).
              *4) i-αβ-Dibrom-β-Phenylpropionsäure (Śoc. 83, 669 C. 1903 [2] 115).
CoH,OBr
              21) Methylenäther d. 3,4-Dioxy-1-[\alpha\beta-Dibromäthyl]benzol. Sm. 160°
                  (G. 34 [1] 369 C. 1904 [2] 214).
              *1) α-Merkapto-β-Phenylakrylsäure. Sm. 119° (M. 24, 507 C. 1903 [2]
C_0H_8O_8S
                  836).
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24) Methyläther d. 5-Oxy-4-Phenyl-1,2,3,6-Dioxdiazin. Sm. 69° (A.

25) Benzylidenharnstoff-2-Carbonsäure. Sm. 240° u. Zers. (B. 21 [2]

328, 254 *C.* **1903** [2] 1001).

353; C. r. 106, 948. — II, 1626; *II, 950.

C9H8O3N2

26) Säure (aus d. Verb. C₁₇H₁₆O₂N₃). Sm. 256° u. Zers. (C. 1904 [1] 1555). $\mathbf{C}_0\mathbf{H}_8\mathbf{O}_3\mathbf{N}_2$ 27) α-Amidd.α-Imido-α-Phenylessigsäure-2-Carbonsäure (Imidophtalonaminsäure). Sm. 191-193°. NH, (M. 25, 392 C. 1904 [2] 324). Acetat d. 3,5-Dichlor-1-Oxy-4-Keto-1-Methyl-1,4-Dihydrobenzol. C.H.O.Cl2 Sm. 82-84° (A. 328, 299 C. 1903 [2] 1248). 22) Aethylester d. 3,5-Dibrom-4-Oxybenzol-1-Carbonsäure. Sm. 990 CoH. O. Br. (Soc. 81, 1483 C. 1903 [1] 23, 144). *5) β-[3-Nitro-4-Amidophenyl]akrylsäure. Sm. 218-224,5° (M. 24, 94 CoHsO4N2 C. 1903 [1] 921). *11) Phenylhydrazonmethan-ua-Dicarbonsäure. Sm. 163-164° (B. 37, 4171 C. 1904 [2] 1703). *22) Benzoat d. α-Nitro-α-Oximidoäthan. Sm. 131° (G. 33 [1] 510 C. 1903 [2] 938). 24) 6-Nitroso-3-Acetylamidobenzol-1-Carbonsäure. Zers. bei 240° (M. 24. 7 C. 1903 [1] 775). 25) Aldehyd d. 5-Nitro-2-Acetylamidobenzol-1-Carbonsäure. Sm. 160 bis 161° (M. 24, 96 C. 1903 [1] 921). 26) Aldehyd d. 6-Nitro-3-Acetylamidobenzol-1-Carbonsäure. Sm. 1610 (M. 24, 5 C. 1903 [1] 775). 27) Aldehyd d. 3-Nitro-4-Acetylamidobenzol-1-Carbonsäure. Sm. 155° (M. 24, .90 C. 1903 [1] 921). 3) 4,7-Dinitro-5,6-Dimethylindazol. Sm. 221-222° (B. 37, 2596 C. $C_0H_8O_4N_4$ 1904 [2] 660). 4) 4,6-Dinitro-5,7-Dimethylindazol. Sm. 247° (B. 37, 2594 C. 1904 [2] 660). CoH,O4Cl2 Verbindung (aus Benzoësäure u. Dichloressigsäure) (R. 21, 353 C. 1903 [1] 150). *4) 5-Nitro-2-Acetylamidobenzol-1-Carbonsäure. Sm. 221° (B. 36, CoHOON, 1801 C. 1903 [2] 283). *6) 3-Nitrobenzoylamidoessigsäure. Sm. 165° (B. 36, 1647 C. 1903 [2] 32). *7) 4-Nitrobenzoylamidoessigsäure (B. 36, 1648 C. 1903 [2] 32) *13) 3-Nitro-4-Acetylamidobenzol-1-Carbonsäure (D.R.P. 151725 O. 1904 [1] 1588). 21) β -Keto- α -[P-Dinitrophenyl] propan. Sm. 73—75° (Bl. [3] 19, 74). — 'III, 115. 21) Formyl-4-Nitrophenylamidoessigsäure. Sm. 159—160° u. Zers. (D.R.P. 154556 C. 1904 [2] 1012). 22) 6-Nitro-3-Acetylamidobenzol-1-Carbonsäure. Sm. 225° (M. 24, 8 C. 1903 [1] 775). *3) β -[4-Sulfophenyl]akrylsäure + 3[5]H₂O. Na + 2H₂O, Anilinsalz (C. 1903 [2] 438). C9H8O5S C 38,0 — H 2,8 — O 39,4 — N 19,7 — M. G. 284.

1) Dimethylamid d. 2,4,6-Trinitrobenzol-1-Carbonsäure. Sm. 144. C9H8O7N4 (R. 21, 383 C. 1903 [1] 152). CoH8O8N4 *2) Asthylester d. 2,4,6-Trinitrophenylamidoameisensäure. Sm. 147° (Soc. 85, 651 C. 1904 [2] 310). 4) 4-Thiocarbonyl-2-Methyl-4,5-Dihydro-1,3-Benzdiazin. Sm. 218 $C_0H_8N_2S$ bis 219° u. Zers. (C. 1903 [1] 1270). *2) 2-Thiocarbonyl-5-Methyl-4-Phenyl-2,4-Dihydro-1,3,4-Thiodiazol CoH8N2S2 (2-Methyl-3-Phenyl-2,3-Dihydro-1,3,4-Thiodiazol-2,5-Sulfid). Sm. 216° (J. pr. [2] 67, 250 C. 1903 [1] 1264). CoH, ClBr 1) α -Chlor- β -Brom- α -Phenylpropen. Sd. 135—140°, (B. 36, 771 C. **1903** [1] 834). 1) $\gamma \gamma$ -Dichlor- $\alpha \beta$ -Dibrom- α -Phenylpropan. Sm. 127° (C. r. 136, 96 C. 1903 [1] 457). CaHaClaBra *17) 3-Methyl-2,4-Benzoxazin. HBr, Pikrat (B. 37, 2263 C. 1904 [2] 213). *20) Methylphtalimidin. HBr, (HJ, J₂) (B. 36, 156 C. 1903 [1] 444). *21) Amid d. \(\beta\)-Phenylakrylsäure. Sm. 147° (M. 22, 428). CoHON

*32) Nitril d. 4-Oxybenzoläthyläther-1-Carbonsäure (B. 36, 652 C. 1903

γ-Phenylamido-γ-Oxypropin. Sm. 122-123° (B. 36, 3667 C. 1903

[1] 768).

[2] 1312).

40)

CoHOON 41) polym. Anhydroalkohol (aus Methyl-4-Methylenamidophenylketon) (C. 1903 [1] 922). 42) Methyl-4-Methylenamidophenylketon. Sm. 170° (C. 1903 [1] 922). 34) 5-Oxy-4-Methyl-1-Phenyl-1,2,3-Triazol. Zers. bei 133—134°. Na + CoHON $2H_2O$, $HCl + H_2O$ (B. 35, 4054 C. 1903 [1] 170; A. 335, 93 C. 1904 [2] 1232). 35) Nitril d. Methyl-4-Nitrosophenylamidoessigsäure. Sm. 114-1160 (B. 37, 2637 C. 1904 [2] 519). C₉H₉OBr 11) α-Brom-β-Keto-α-Phenylpropan. Fl. (G. 33 [2] 262 C. 1904 [1] 24). CHOBr. 10) Methyläther d. 2,4,6-Tribrom-5-Oxy-1,3-Dimethylbenzol. 111° (R. 21, 328 C. 1903 [1] 78). *8) γ -Oximido- γ -Oxy- α -Phenylpropen. Cu (G. 34 [2] 70 C. 1904 [2] 733). C9H9O2N *36) Aldehyd d. 4-Acetylamidobenzol-1-Carbonsäure. Sm. 161° (C. 1903) [1] 883; M. 24, 89 C. 1903 [1] 921). *38) Amid d. Benzoylessigsäure. Sm. 114-116° (C. 1904 [2] 905) *42) Phenylamid d. Brenztraubensäure. Sm. 103-105 (B. 35, 4056 C. 1903 [1] 171). *48) Nitril d. a-Oxy-a-[4-Methoxylphenyl]essigsäure. Sm. 66—67° (B. 37, 3173 C. 1904 [2] 1303). 66) Aldehyd d. 3-Acetylamidobenzol-1-Carbonsäure. Sm. 84° (M. 24, 3 C. 1903 [1] 775). *10) P-Nitro-2, 5-Dimethylbenzimidazol. Sm. 210° (B. 36, 3972 C. 1904 $C_9H_9O_2N_8$ [1] 178). *24) 5-Keto-3-Oxy-4-Methyl-1-Phenyl-4, 5-Dihydro-1, 2, 4-Triazol. 223—224° (B. 36, 3149 C. 1903 [2] 1073; B. 37, 2337 C. 1904 [2] 315). 27) Methyläther d. 3-Oxy-5-Keto-1-Phenyl-4,5-Dihydro-1,2,4-Triazol. Sm. 197° (B. 36, 3150 C. 1903 [2] 1073). 28) 3,5-Diketo-1-Phenylhexahydro-1,2,4-Triazin. Sm. 225° (B. 36, 3884 C. 1904 [1] 27). 29) P-Nitro-4, 6-Dimethylbenzimidazol. Sm. 268° (B. 36, 3973 C. 1904 [1] 178). 30) 4-Nitro-5, 6-Dimethylindazol. Sm. 204° (B. 37, 2596 C. 1904 [2] 660). 31) **7-Nitro-5, 6-Dimethylindazol.** Sm. $180,5-181,5^{\circ}$ (B. **37**, 2595 \acute{C} . 1904 [2] 660). 32) 4[oder 6]-Nitro-5,7-Dimethylindazol. Sm. 180—181° (B. 37, 2594) C. 1904 [2] 660). 33) Nitril d. 3-Nitro-4-Dimethylamidobenzol-1-Carbonsäure. Sm. 114 bis 115° (B. 37, 1030 C. 1904 [1] 1207). 34) Amid d. Acetophenonazocarbonsäure. Sm. 217° u. Zers. (A. 325, 151 C. 1903 [1] 644). Azid d. β-Phenylureïdoessigsäure. Sm. 92° u. Zers. (J. pr. [2] 70, 248 C. 1904 [2] 1463). $C_9H_9O_2N_5$ CoHoOoCl 25) 2-Methylphenylester d. Chloressigsäure. Sd. 147° (i. V.) (Ar. 240, 634 C. 1903 [1] 24). 26) 3-Methylphenylester d. Chloressigsäure. Sd. 170° (i. V.) (Ar. 240, 635 C. 1903 [1] 24). 27) 4-Methylphenylester d. Chloressigsäure. Sm. 29-30°; Sd. 153 bis 154° (i. V.) (Ar. 240, 635 C. 1903 [1] 24). CoHoOoBr 22) Methylenäther d. 3,4-Dioxy-1-[α-Bromäthyl] benzol. Sm. 107° (G. **34** [1] 368 *C.* **1904** [2] 214). 23) α-Brom-β-Phenylpropionsäure. Fl. (B. 37, 3064 C. 1904 [2] 1207).
24) Benzoat d. β-Brom-α-Oxyäthan. Sd. 280—285° u. Zers. (A. 332, 209 C. 1904 [2] 211). $C_9H_9O_3N$ *10) 2-Acetylamidobenzol-1-Carbonsäure. Sm. 186,5°. Ca (B. 36, 1800 C. 1903 [2] 283). *11) 3-Acetylamidobenzol-1-Carbonsäure. Sm. 250° (B. 36, 1801 C. 1903 [2] 283). *12) 4-Acetylamidobenzol-1-Carbonsäure. Sm. 256,5° (B. 36, 1801 C. 1903 [2] 283; B. 36, 4088 C. 1904 [1] 269; D.R.P. 151725 C. 1904 [1] 1587). *33) 2-Amid d. Benzol-I-Carbonsäure-2-Methylcarbonsäure. Sm. 184° u. Zers. (M. 24, 952 C. 1904 [1] 916).
*48) Methylester d. 2-Formylamidobenzol-1-Carbonsäure. Sm. 42—43°;

Sd. 169,8—170°₁₈ (B. **36**, 2476 C. **1903** [2] 559).

$C_9H_9O_3N$	* 49)	Aethylester d. 2-Nitrosobenzol-1-Carbonsäure. Sm. 120—121° (B.
	50)	36, 2313 C. 1903 [2] 430; B. 36, 2701 C. 1903 [2] 996). 2-Methylformylamidobenzol-1-Carbonsäure. Sm. 167° (168,5—169°)
		(D. R. P. 139393 C. 1903 [1] 745; B. 36, 1805 C. 1903 [2] 284).
	51)	Aethylester d. 3-Nitrosobenzol-1-Carbonsäure. Sm. 52-53° (Am.
	52)	32, 401 <i>C.</i> 1904 [2] 1500). Aethylester d. 4-Nitrosobenzol-1-Carbonsäure. Sm. 81° (<i>Am.</i> 32,
	•	398 G. 1904 [2] 1499).
	53)	Phenylester d. Acetylamidoameisensäure. Sm. 117° (B. 36, 3216 C. 1903 [2] 1055).
	54)	1-Amid d. Benzol-1-Carbonsäure-2-Methylcarbonsäure. Sm. 230°
	•	(M. 24. 956 C. 1904 [1] 916).
	99)	Monamid d. Benzol-1, 4-Dicarbonsäuremonomethylester. Sm. 201.º (B. 37, 3223 C. 1904 [2] 1121).
$\mathbf{C_9H_9O_8N_3}$	18)	Monophenyldiamid d. Oximidomalonsäure. Sm. 180—181 u. Zers.
C TT O CI	*9\	(C. 1904 [1] 1555). Chloracetat d. 1, 2-Dioxybenzolmonomethyläther. Sm. $58-60^{\circ}$
$C_9H_9O_8C1$		(Ar. 240, 636 C. 1903 [1] 24).
	20)	4-Oxy-P-Chlormethyl-I-Methylbenzol-3-Carbonsäure. Sm. 169° (D. R.P. 113723). — *II, 931.
	21)	3-Oxy-?-Chlormethyl-1-Methylbenzol-4-Carbonsäure. Sm. 1920
		(D. R. P. 113723). — *II, 931.
$\mathbf{C_9H_9O_8Br}$	19)	Aldehyd d. 6-Brom-3, 4-Dioxybenzoldimethyläther-1-Carbon-säure? Sm. 150° (B. 37, 3815 C. 1904 [2] 1575).
	20)	Aethylester d. 6-Brom-3-Oxybenzol-1-Carbonsäure. Sm. 940
7 T O T D	G)	(G. 32 [2] 336 C. 1903 [1] 579). Tribrommethylfilicinsäure. Sm. 116° (A. 329, 295 C. 1904 [1] 797).
$egin{array}{c} \mathbf{C_9H_9O_3Br_3} \ \mathbf{C_9H_9O_4N} \end{array}$	*6)	2-Carta - phononide rational decreases (D.R.P. 142506 C. 1903 [2] 80;
9 9 4	-,	D. C. 1903 D.R.P. 143902 C. 1903 [2] 610;
	* 221	D.R.P. 147228 C. 1903 [2] 1485; D.R.P. 149346 C. 1904 [1] 847). 2,6-Dimethylpyridin-3,5-Dicarbonsaure. Sm. 315—320° (J. pr. [2]
	•	69 , 245 <i>C</i> . 1904 [1] 1358).
	*49)	Dimethylester d. Pyridin-2, 6-Dicarbonsäure. Sm. 121° (M. 24, 205
	*74)	C. 1903 [2] 48). 1,3-Methylbetaïn d. Pyridin-3,4-Dicarbonsäure-4-Methylester.
	011	Sm. 218° u. Zers. (M. 24, 522 C. 1903 [2] 889).
	ST)	2,3-Methylenäther d. 5-Nitro-2-Oxy-3-Öxymethyl-1-Methylbenzol. Sm. 133° (A. 330, 94 C. 1904 [1] 1076).
	82)	3,4-Methylenäther d. 6-Nitro-3-Oxy-4-Oxymethyl-1-Methylbenzol.
	83)	Sm. 137° (A. 330, 99 C. 1904 [1] 1076). 2-Oxyacetylamidobenzol-l-Carbonsäure. Sm. 167° (D.R.P. 153576
		C. 1904 [2] 678).
	84)	1, 4-Methylbetain d. Pyridin-3, 4-Dicarbonsäure-3-Methylester + H ₂ O. Sm. 182° u. Zers. (M. 24, 523 C. 1903 [2] 889).
	85)	Methylamid d. 3,4-Dioxybenzol-1-Ketocarbonsäure (Peradrenalon)
$\mathbf{C}_{9}\mathbf{H}_{9}\mathbf{O}_{4}\mathbf{N}_{8}$	111	(C. 1904 [2] 1512). Methyläther d. α -Amido- α -[3-Nitrobenzoylimido]- α -Oxymethan.
Obite Of 148	11)	Sm. 115° (C. 1904 [1] 1560).
	12)	5-Nitro-2-Acetylamidobenzaldoxim. Sm. 239 ° (M. 24, 97 C. 1903
	13)	[1] 921). 6-Nitro-3-Acetylamidobenzaldoxim. Sm. 189° (M. 24, 6 C. 1903
	,	[1] 775).
	14)	3-Nitro-4-Acetylamidobenzaldoxim. Sm. 206° (M. 24, 91 C. 1903 [1] 921).
	15)	Methylester d. 4-Nitrophenylhydrazonessigsäure. Zers. bei 170
		bis 180° (B. 37, 3592 C. 1904 [2] 1378). Methylester d. α -Phenylhydrazon- α -Nitroessigsäure. Sm. 74°
		(A. 328, 250 C. 1903 [2] 1000).
$\mathbf{C_9H_9O_4Br}$	*3)	6-Brom-3,4-Dioxybenzoldimethyläther-1-Carbonsäure. Sm. 186° (B. 37, 3814 C. 1904 [2] 1575).
$\mathbf{C}_{9}\mathbf{H}_{9}\mathbf{O}_{4}\mathbf{N}_{5}$	2)	Amid d. 3-Nitrophenylhydrazonmethan-aa-Dicarbonsäure. Sm.
		235° (B. 37, 4177 C. 1904 [2] 1704).
	ర)	Amid d. 4-Nitrophenylhydrazonmethan-αα-Dicarbonsäure. Sm. oberh. 285° (B. 37, 4177 C. 1904 [2] 1704).
		200 (a) 0., 22 0. 2002 [a] 110x).

 $C_9H_9O_5N$ *1) 1-Acetat d. 4-Nitro-1, 2-Dioxybenzol-2-Methyläther. Sm. 1010 (B. 36, 2257 C. 1903 [2] 428). *35) Aldehyd d. 2-Nitro-3,4-Dioxybenzol-3,4-Dimethyläther-1-Carbonsäure. Sm. 64° (63°) (B. 35, 4397 C. 1903 [1] 340; B. 36, 2932 C. 1903 [2] 888; B. 36, 3528 C. 1903 [2] 1378).
*36) Aldehyd d. 6-Nitro-3,4-Dioxybenzol-3,4-Dimethyläther-1-Carbonsäure. Sm. 132° (B. 35, 4396 C. 1903 [1] 340). 37) 6-Nitroso-3, 4-Dioxybenzoldimethyläther-1-Carbonsäure. Sm. 180 bis 190° u. Zers. (C. 1903 [2] 32). 38) Aldehyd d. 5-Nitro-3,4-Dioxybenzol-3,4-Dimethyläther-1-Carbonsäure. Sm. 90-91° (B. 35, 4399 C. 1903 [1] 341). 39) 2-Acetat d. 3-Nitro-1,2-Dioxybenzol-1-Methyläther. Sm. 135—136° (B. 36, 2257 C. 1903 [2] 428). 12) 1-2-Furanoylamidoathan- $\alpha\beta$ -Dicarbonsäure. Sm. 162—163°. Ba CoHoOaN (B. 37, 2958 O. 1904 [2] 993). C9H9O8N5 2) Verbindung (aus Alloxantin). Zers. bei 240° (B. 37, 2687 C. 1904 [2] $C_9H_9O_7N$ 1) Aethylcarbonat d, 4-Nitro-1, 2, 3-Trioxybenzol. Sm. 134° (B. 37, 114 C. 1904 [1] 585). 5) Methyläther d. 2,4,6-Trinitro-5-Oxy-1,3-Dimethylbenzol. Sm. 1270 C9H9O7N3 (R. 21, 329 C. 1903 [1] 78). C9H9O8N2 2) 2,4,6-Trinitro-3-Aethylnitramido-1-Methylbenzol. Sm. 79° (R. 21, 333 *C.* **1903** [1] 78). 3) 2,5,6-Trinitro-4-Methylnitramido-1,3-Dimethylbenzol. Sm. 1340 (R. 21, 334 C. 1903 [1] 79). 4) 2, 4, 6-Trinitro - 5 - Methylnitramido - 1, 3-Dimethylbenzol. Sm. 181° u. Zers. (R. 21, 331 C. 1903 [1] 78). C 28,8 — H 2,4 — O 42,7 — N 26,1 — M. G. 375. $\mathbf{C}_{9}\mathbf{H}_{9}\mathbf{O}_{10}\mathbf{N}_{7}$ 1) 2,4,6-Trinitro-3,5-Di[Methylnitramido]-l-Methylbenzol. Sm. 199 bis 200° u. Zers. (R. 23, 127 C. 1904 [2] 200). C 24,8 — H 2,1 — O 44,1 — N 29,0 — M. G. - M. G. 435. $C_9H_9O_{12}N_9$ 1) 2,4,6-Trinitro-1,3,5-Tri[Methylnitramido]benzol. Sm. 200-2030 u. Zers. (R. 23, 129 C. 1904 [2] 201). 7) 3-Chlormethylat d. 1,3-Benzdiazin. Sm. 171-172° (B. 37, 3653 C₉H₉N₂Cl C. 1904 [2] 1514). 4) 3-Jodmethylat d. 1,3-Benzdiazin. $+ CH_4O$. Sm. 125—127° (B. 37, $C_9H_9N_2J$ 3652 C. 1904 [2] 1513). *6) Methyläther d. α-Cyanimido-α-Phenylamido-α-Merkaptomethan. $C_9H_9N_3S$ Sm. 186°. NH₄ (C. 1903 [2] 662; A. 331, 296 C. 1904 [2] 33). 1) Magnesiumbromidverbindung d. β -Phenylpropen (C. r. 135, 1348) C9H9BrMg C. 1903 [1] 328). *6) α-Acetyl-β-Benzylidenhydrazin. Sm. 137° (J. pr. [2] 69, 145 C. 1904 C₅H₁₀ON₂ [1] 1274). 39) 3-Methylhydroxyd d. 1,3-Benzdiazin. Sm. 163-165°. Jodid (B. 37, 3652 C. 1904 [2] 1514). *1) 4-Keto-1-Dichlormethyl-1,2-Dimethyl-1,4-Dihydrobenzol. Sm. 102 $C_9H_{10}OCl_2$ bis 103° (B. 35, 4216 C. 1903 [1] 161). *2) 4-Keto-l-Dichlormethyl-1,3-Dimethyl-1,4-Dihydrobenzol. Sm. 56° (B. 35, 4216 C. 1903 [1] 161). *35) Amid d. β -Amido- β -Phenylakrylsäure. Sm. 164,5—165° (C. 1904) [2] 905). 10) β -Bromäthyläther d. 3-Brom-4-Oxy-1-Methylbenzol. Sd. 172 bis C9H10OBr2 173°₁₅ (B. **36**, 2875 C. **1903** [2] 834). *1) s-Acetylphenylharnstoff. Sm. 183-184° (Am. 30, 418 C. 1904 [1] $C_9H_{10}O_2N_2$ *34) Monophenyldiamid d. Malonsäure + 1/2 H2O. Sm. 153-1540 (wasserfrei) (*C.* 1904 [1] 1555). 49) Methyläther d. α-Benzoylamido-α-Imido-α-Oxymethan. Na, HCl (C. 1904 [1] 1559). 50) 2, 4-Di [Formylamido]-1-Methylbenzol. Sm. 176-177° (D. R. P. 138839 *C.* **1903** [1] 427).

51) 3-Acetylamidobenzaldoxim. Sm. 185° (M. 24, 4 C. 1903 [1] 775). 52) Methylester d. Phenylhydrazonessigsäure. Sm. 139° (B. 36, 1936

C. 1903 [2] 189).

53) Amid d. 3 - Acetylamidobenzol - 1 - Carbonsäure. Sm. 216-216,50 $C_9H_{10}O_2N_9$ (C. 1904 [2] 101)

*6) Amid d. Phenylhydrazonmethan-αα-Dicarbonsäure. Sm. 231—232° $C_9H_{10}O_2N_4$ (B. 37, 4171 C. 1904 [2] 1703). 10) Amid d. 4 - Methylphenylnitrosohydrazonessigsäure (J. pr. [2]

67, 412 C. 1903 [1] 1347).

*17) \(\beta\)-Phenylureïdoessigsäure (J. pr. [2] 70, 245 C. 1904 [2] 1463). $C_9H_{10}O_3N_2$ *44) 4-Nitro-3-Methylphenylamid d. Essigsäure. Sm. 103-1040 (Soc.

83, 333 C. 1903 [1] 870). *59) Aldehyd d. 3-Nitro-4-Dimethylamidobenzol-1-Carbonsäure (D. R. P. 92010; B. 37, 1028 C. 1904 [1] 1207).

69) Formyl-4-Amidophenylamidoessigsäure (D.R.P. 154556 C. 1904 [2] 1012).

70) Phenylhydrazonoxyessigmethyläthersäure. Zers. bei 99-100° (Soc. **85**, 988 *C.* **1904** [2] 830).

71) Aethylester d. $\beta\delta$ -Dicyan- α -Ketovaleriansäure. Sm. 96—98° (Am. 30, 162 C. 1903 [2] 712).

72) Aldehyd d. 5 - Nitro - 2 - Dimethylamidobenzol - 1 - Carbonsäure. Sm. 105° (M. 25, 368 C. 1904 [2] 322).

73) Hydroxylamid d. 2-Methylphenyloxaminsäure. Sm. 1520 (Soc. 81, 1571 C. 1903 [1] 158). 74) Aethylamid d. 3-Nitrobenzol-I-Carbonsäure. Sm. 120° (Am. 29,

309 C. 1903 [1] 1166).

6) Dibrommethylfilicinsäure. Sm. 142° (A. 329, 295 C. 1904 [1] 797). $C_9H_{10}O_3Br_9$ Sulton d. 1-[α-Oxyisopropyl] benzol-2-Sulfonsäure. Sm. 106-1076
 (B. 37, 3257 C. 1904 [2] 1031). C9H10O3S

*2) P-Dinitro-4-Aethyl-1-Methylbenzol. Sm. 51-52° (B. 36, 1875 C. $C_9H_{10}O_4N_9$ 1903 [2] 286).

*25) 4-Amido-2, 6-Dimethylpyridin-3, 5-Dicarbonsäure (M. 23, 945 C. **1903** [1] 296).

*32) Aethylester d. 3-Nitro-4-Amidobenzol-l-Carbonsäure. (D.R.P. 151725 C. 1904 [1] 1587). Sm. 136°

46) Di[5-Keto-3-Methyl-4,5-Dihydro-4-Isoxazolyl]methan. Sm. 180 bis 183° u. Zers. (A. 332, 12 C. 1904 [1] 1564).

47) Nitrosodamascenin. Sm. 150-152° (Ar. 242, 321 C. 1904 [2] 457). 48) 3-Nitro-4-Dimethylamidobenzol-1-Carbonsäure. Sm. 214—215° (É.

37, 1031 C. 1904 [1] 1208).
49) Methylester d. 4-[oder 6]-Nitro-6-[oder 4]-Amidobenzol-1,3-Di-

carbonsäure. Sm. 128° (d. 33 [2] 289 C. 1904 [1] 265). 50) Methylester d. 3-Ureïdo-4-Oxybenzol-1-Carbonsäure. Sm. 1830 (D.R.P. 18945; A. 325, 321 C. 1903 [1] 770).

4) 2,6-Diketo-1,3,7-Trimethylpurin-8-Carbonsäure (D.R.P. 153121 C9H10O4N4 C. 1904 [2] 626).

5) Methylester d. 2, 6-Diketo-3, 7-Dimethylpurin-8-Carbonsäure. Sm. 270° (D.R.P. 153121 C. 1904 [2] 626).

6) Aethylester d. 2,6-Diketo-3-Methylpurin-8-Carbonsäure. Sm. 304 bis 305° (D.R.P. 153121 C. 1904 [2] 625).

6) γ-Oxy-α-Phenylpropen-γ-Sulfonsäure. Na (B. 37, 4044 C. 1904 $C_9H_{10}O_4S$ [2] 1648).

7) γ-Oxy-α-Phenylpropan-γ-Schwefelsäure. Na (B. 37, 4046 C. 1904 2] 1648).

8) Aldehyd d. β -Phenylpropionsäure- β -Sulfonsäure. Ba + 2 H₂O (B. 37, 4046 C. 1904 [2] 1648).

11) Monamid d. 1-2-Furanoylamido
äthan- $\alpha\beta$ -Dicarbonsäure. Sm. 172 $C_0H_{10}O_5N_2$ bis 173°. Ba $+ 2H_2O$, Cu $+ H_2O$, Ag (B. 37, 2959 C. 1904 [2] 993). $C_9H_{10}O_5Br_4$ Dimethylester d. αβδε-Tetrabrom-γ-Ketopentan-αε-Dicarbonsäure.

Sm. 207° u. Zers. (B. 37, 3295 C. 1904 [2] 1041). *7) 1-Aethylester d. Benzol-1-Carbonsäure-2-Sulfonsäure. C9H10O5S **30**, 269 *C.* **1903** [2] 1119).

12) Dimethylester d. Benzol-1-Carbonsäure-3-Sulfonsäure. Sm. 32-33°; Sd. 198—200°₂₀ (M. 23, 1111 C. 1903 [1] 396).

13) Dimethylester d. Benzol-1-Carbonsäure-4-Sulfonsäure. Sm. 88-90° (M. 23, 1127 C. 1903 [1] 396).

- CoHioon, 3) Dimethyläther d. 2,4-Dinitro-1-Dioxymethylbenzol. Sd. 183-185 0 (B. 37, 1869 C. 1904 [1] 1601).
 - 4) 1-Methyläther-2-Aethyläther d. 3,5-Dinitro-1,2-Dioxybenzol. Sm. 91° (R. 23, 112 C. 1904 [2] 205).
- $\mathbf{C_9H_{10}O_6N_4}$ 5) 2,4,6-Trinitro-3-Aethylamido-1-Methylbenzol. Sm. 98° (R. 21, 333 C. 1903 [1] 78).
 - 6) 2, 4, 6-Trinitro-5-Methylamido-1, 3-Dimethylbenzol. Sm. 164° (R. **21**, 331 *C.* **1903** [1] 78).
- CoH10O6N6 C 36,2 - H 3,3 - O 32,2 - N 28,2 - M. G. 298.
 - 1) 3,5-Dinitro-2,4-Di[Methylnitrosamido]-1-Methylbenzol. Sm. 1320 $(\hat{J}.\,\,pr.\,\,[2]\,\,67,\,\,560\,\,\,\hat{C}.\,\,$ 1903 $\,\,[2]\,\,240).$
- CoH10ON 5) Trimethyläther d. 2,4-Dinitro-1,3,5-Trioxybenzol. Sm. 165°. $+ C_2H_6O$ (Am. 13, 179; R. 23, 116 C. 1904 [2] 205).
- C 37,8 H 3,5 O 39,1 N 19,6 M G. 286. C₉H₁₀O₇N₄ 1) Methyläther d. 3,5-Dinitro-2-Aethylnitramido-1-Oxybenzol. Sm. 67° (R. 23, 113 C. 1904 [2] 205).
- C9H10NCl 5) α -Chlor- α -Aethylimido- α -Phenylmethan. Sd. 110—111° (Soc. 83, 320 C. 1903 [1] 580, 876).
- 1) 4-Tri[Jodmethyl]methylpyridin (4-tert. Trijodbutylpyridin). Sm. 136° CoHIONJ (B. 36, 2910 C. 1903 [2] 890).
- $C_0H_{10}Cl_2J_2$ 1) $\alpha\beta$ -Dichloräthyl-3-Methylphenyljodoniumjodid. Sm. 110° (A. 327, 285 *C.* **190**3 [2] 351).
- 3) $\alpha\beta$ -Dichloräthyl-3-Methylphenyljodoniumchlorid. Sm. 174°. 2 + C9H10Cl3J PtCl₄ (A. 327, 284 C. 1903 [2] 351).
- C9H11ON *31) 4-Methyl-3,4-Dihydro-1,4-Benzoxazin. Sm. 167—168°; Sd. 252 bis 254°₇₈₉. HCl (Soc. 83, 758 C. 1903 [1] 1419 C. 1903 [2] 448) *33) Aldehyd d. 4 - Dimethylamidobenzol - 1 - Carbonsaure.
 - Sm. 73°. \vdash 2,4,6-Trinitro-1-Methylbenzol (B. 37, 859 C. 1904 [1] 1206; B. 37, 1733, 1745 *O.* **1904** [1] 1598).
 - *48) Dimethylamid d. Benzolcarbonsäure. Sd. 272-2730 (B. 37, 2814 C. 1904 [2] 648).
 - *49) Aethylamid d. Benzolcarbonsäure. Sm. 68° (B. 36, 3526 C. 1903 [2] 1326; B. 37, 2815 C. 1904 [2] 648).
 - *56) Aethylphenylamid d. Ameisensäure. Sd. $89.5 - 91_{14}^{\circ}$ (B. 36, 2476 C. 1903 [2] 559).
 *65) Aethyl-4-Amidophenylketon. Sm. 142° (C. 1903 [1] 1222)

 - *67) Aldehyd d. 4-Aethylamidobenzol-1-Carbonsäure. Sm. 79° (B. 37, 858 C. 1904 [1] 1206).
 - *70) Methyläther d. α-Phenylimido-α-Oxyäthan. Sd. 81—82°₁₂ (A. 333, 294 C. 1904 [2] 905).
 - 80) Methyläther d. α -Methylimido $-\alpha$ -Oxy- α -Phenylmethan. Sd. 203 bis 206°. HCl (Soc. 83, 324 C. 1903 [1] 581, 876).
 - 81) 2 Methylbenzimidomethyläther. HCl (Soc. 83, 769 C. 1903 [2] 200, 437).
 - 82) α -Óximido- β -Phenylpropan (Oxim d. α -Phenylpropionsäurealdehyd). Sd. 124°_{7} . *III, 41.
 - 83) 4-Aethylbenzaldoxim (1-Oximidomethyl-4-Aethylbenzol). (C. r. 136, 558 C. 1903 [1] 832).
 - 84) anti-2,4-Dimethylbenzaldoxim. Sm. 85—86° (84—85,5°) ($\it C.$ 1901 [2] 772; 1903 [2] 878; B. 36, 326 C. 1903 [1] 576; G. 32 [2] 490 C. 1903 [1] 831).
 - 85) syn-2,4-Dimethylbenzaldoxim. Sm. 126° (B. 36, 326 C. 1903 [1] 576).
 - 86) anti-2,5-Dimethylbenzaldoxim. Sm. 62,5-63,5° (60°) (G. 32 [2] 479 C. 1903 [1] 830; B. 36, 329 C. 1903 [1] 576)
 - 87) syn-2,5-Dimethylbenzaldoxim. Sm. 139° (133°) (B. 36, 329 C. 1903 [1] 576; G. 32 [2] 482 C. 1903 [1] 831).
 88) anti-3,4-Dimethylbenzaldoxim. Sm. 106° (B. 36, 327 C. 1903 [1]

 - 89) Aldehyd d. 6-Methylamido-l-Methylbenzol-3-Carbonsäure. Sm. 115° (B. 37, 863 C. 1904 [1] 1206).
 - 90) Aldehyd d. 2-Dimethylamidobenzol-l-Carbonsäure. Sd. 120 11 (244 9) + H₂SO₃, (2 HCl, PtCl₄) (B. 37, 973, 987 C. 1904 [1] 1079; M. 25, 371 C. 1904 [2] 322).

91) Amid d. 3-Methylcykloheptatriëncarbonsäure. Sm. 99° (B. 36, C_0H_1,ON 3516 C. 1903 [2] 1275). 92) Amid d. 3-Methylnorcaradiëncarbonsäure. Sm. 131° (B. 36, 3514 C. 1903 [2] 1275). 14) β -Semicarbazon- α -Phenyläthan. Sm. 153° (B. 36, 3911 C. 1903 [2] C9H11ON8 1439). 15) 2-Semicarbazonmethyl-1-Methylbenzol. Sm. 209° (C. r. 137, 717 C. 1903 [2] 1433). 16) 4-Semicarbazonmethyl-1-Methylbenzol. Sm. 215° u. Zers. (C. r. 137, 717 C. 1903 [2] 1433). 17) 3-Keto-4,5,6-Trimethyl-2,3-Dihydro-5,1,2-Benztriazol + 3H₂O. Sm. 92° (167° wasserfrei). HJ (B. 36, 520 C. 1903 [1] 649). 18) Amid d. 2-Methylphenylhydrazonessigsäure. Sm. 1866 (J. pr. [2] 67, 410 C. 1903 [1] 1347). 19) Amid d. 4-Methylphenylhydrazonessigsäure. Sm. 168° (J. pr. [2] 67, 410 C. 1903 [1] 1347). 20) Benzylidenhydrazid d. Amidoessigsäure. Sm. 157° (J. pr. [2] 70, 103 C. 1904 [2] 1035). *7) Chlorid d. α-Camphylsäure. Sd. 138—140% (Soc. 83, 850 C. 1903 $C_9H_{11}OC1$ [2] 572). 10) Methyläther d. α -Chlor- α -[2-Oxyphenyl]äthan. Fl. (B. 36, 3590 C. 1903 [2] 1365).
11) Aethyläther d. 2-Chlor-1-Oxymethylbenzol. Sd. 2126 (B. 37, 3696). C. 1904 [2] 1387) 12) Aethyläther d. 3-Chlor-1-Oxymethylbenzol. Sd. 2190 (B. 37, 3693 C. 1904 [2] 1387). 9) Aethyläther d. 3-Brom-1-Oxymethylbenzol. Sd. 237° (B. 37, 3696 C9H,OBr C. 1904 [2] 1387). Phenyläther d. γ-Jod-α-Oxypropan. Sm. 12°; Sd. 155—156°₁₆ (C. r. 136, 97 C. 1903 [1] 455). $C_9H_{11}OJ$ 4) 4-Jodoso-1-Propylbenzol. Explod. bei 105°. HClO4, HJO3, HNO3, H_2SO_4 , H_2CrO_4 (\hat{A} . 327, 304 \hat{C} . 1903 [2] 353). 5) 4-Jodoso-3-Aethyl-1-Methylbenzol. Zers. bei 209°. H₂SO₄ (J. pr. [2] **69**, 437 *C*. **1904** [2] 589). *14) 2 - Acetylamido - I - Oxymethylbenzol. Sm. 115-116°. HCl (B. 37, $C_9H_{11}O_2N$ 2261 C. 1904 [2] 212). *26) Acetat d. 2-Amido-1-Oxymethylbenzol. HCl, HBr, Pikrat (B. 37, 2265 C. 1904 [2] 212). *35) 4 - Aethyläther d. anti - 4 - Oxybenzaldoxim. Sm. 118° (83—84°?) (B. 36, 651 C. 1903 [1] 768). *49) α-Amido-α-Phenylpropionsäure. Sm. 233° (B. 36, 4315 C. 1904 [1] *51) r-α-Amido-β-Phenylpropionsäure. Sm. 271—273° (231°) (C. 1903 [2] 33; B. 36, 4312 C. 1904 [1] 448; B. 37, 3064 C. 1904 [2] 1207). *59) Methylphenylamidoessigsäure. HCl (B. 37, 2637 C. 1904 [2] 518). *70) 2-Dimethylamidobenzol-1-Carbonsäure. Sm. 70°. (2 + HCl, AuCl₃), HJ + 2 H₂O (B. 37, 406, 409 C. 1904 [1] 942). *72) 4-Dimethylamidobenzol-1-Carbonsäure (B. 37, 411 Anm. C. 1904 [1] 943). *77) 2,4,6-Trimethylpyridin-3-Carbonsäure. Sm. 153—155°. (2HCl, PtCl, (B. 37, 1337 Č. 1904 [1] 1361).
*83) Aethylester d. Phenylamidoameisensäure. Sm. 53°; Sd. 152°, (B. 36, 2476 C. 1903 [2] 539). *84) Aethylester d. 2-Amidobenzol-1-Carbonsäure. Sd. 137,5—138° (D.R.P. 139218 C. 1903 [1] 745; B. 36, 2476 C. 1903 [2] 559). *86) Aethylester d. 4-Amidobenzol-1-Carbonsaure. Benzylsulfonat,

*86) Aethylester d. 4 - Amidobenzol - 1 - Carbonsäure. Benzylsulfonat, o-Phenolsulfonat, p-Phenolsulfonat, Phenol-α-Disulfonat, p-Kresol-m-Sulfonat (D.R.P. 147580 C. 1904 [1] 130; D.R.P. 147790 C. 1904 [1] 131).
*103) Phenylamid d. Oxyessigmethyläthersäure. Sm. 58° (A. 335, 93)

C. 1904 [2] 1231).
*114) 2-Aethylamidobenzol-l-Carbonsäure. Sm. 152—153° (D.R.P. 145604)
C. 1903 [2] 1099).

*117) Methylester d. Methylphenylamidoameisensäure. Sd. 235° (Am. 29, 300 C. 1903 [1] 1165).

- $C_9H_{11}O_2N$ 126) 2-Methylacetylamido-1-Oxybenzol. Sm. 150° (Soc. 83, 756 C. 1903) [1] 1419; C. 1903 [2] 447).
 - 127) 5-Acetylamido-2-Oxy-1-Methylbenzol. Sm. 179° (D.R.P. 147530 C. 1904 [1] 233).
 - 128) α -Oximido- α -[2-Oxy-4-Methylphenyl]äthan. Sm. 103° (C. 1904 [1] 1597).
 - 129) **2-M**ethyläther d. α -Oximido- α -[2-Oxyphenyl]äthan. Sm. 83° (B. 36, 3589 C. 1903 [2] 1365).
 - 130) 4-Methyläther d. β -Oximido- α -[4-Oxyphenyl]äthan. Sm. 121—122° - *III, 66.
 - 131) Amid d. 3-Oxybenzoläthyläther-1-Carbonsäure. Sm. 139—139,5° (A. 329, 69 C. 1903 [2] 1440).
 - 132) β -Oxyäthylamid d. Benzolcarbonsäure. Sm. 58° (B. 36, 1279 C. **1903** [1] 1215).
- $\mathbf{C_9H_{11}O_2N_8}$ 33) 2-Methylphenylamidoformylharnstoff. Sm. 180° (Soc. 81, 158 C. **1903** [1] 158).
 - 34) 3-Oxy-2-Semicarbazonmethyl-1-Methylbenzol. Zers. bei 210° (B. 35, 4106 C. 1903 [1] 149).
 - 35) 2-Oxy-3-Semicarbazonmethyl-1-Methylbenzol. Sm. 241° u. Zers. (B. 35, 4106 C. 1903 [1] 149).
 - 36) 4-Oxy-3-Semicarbazonmethyl-1-Methylbenzol. Zers. bei 238° (B. 35, 4106 C. 1903 [1] 149).
 - 37) Methyläther d. 4-Oxy-1-Semicarbazonmethylbenzol (Anisaldehydsemicarbazon). Sm. 203—204° (J. pr. [2] 68, 247 C. 1903 [2] 1063).
 - 38) Amid d. β-Phenylureïdoessigsäure. Sm. 201° (J. pr. [2] 70, 249 C. 1904 [2] 1463).
 - 39) Amid d. Methyl-4-Nitrosophenylamidoessigsäure. Sm. 1790 (B. 37, 2638 C. 1904 [2] 519).
 - 40) Amid d. 4-Aethoxylphenylazoameisensäure. Sm. 164—165° u. Zers. (A. 334, 185 C 1904 [2] 835).
 - 41) Diamid d. Benzol-1-Carbonsäure-3-Amidoessigsäure. Sm. 201—202°
 - (Bl. [3] 29, 966 C. 1903 [2] 1118). 42) Hydroxylamid d. α-Phenylhydrazonpropionsäure. (Soc. 81, 1573 C. 1903 [1] 158).
- C₉H₁₁O₂Cl 4) Dimethyläther d. 3, 4-Dioxy-1-Chlormethylbenzol. Sm. 50-51° (B. 37, 3404 C. 1904 [2] 1318).
- *4) Brom- α -Camphylsäure. Sm. 107° (Soc. 83, 852 C. 1903 [2] 572). *5) Brom- β -Camphylsäure. Sm. 152° (Soc. 83, 871 C. 1903 [2] 574). $C_9H_{11}O_2Br$
- C₉H₁₁O₂Br₃ *1) Tribromdihydro-α-Camphylsäure. Sm. 178° u. Zers. (Soc. 83, 852
- C. 1903 [2] 572).3) 4-Jodo-1-Propylbenzol. $C_9H_{11}O_2J$ Explodirt bei 185-200° (A. 327, 308 C. 1903 [2] 353).
 - 4) 4-Jodo-3-Aethyl-1-Methylbenzol. Zers. bei 229° (J. pr. [2] 69, 439 C. 1904 [2] 589).
- *25) α -Oxamido- β -Phenylpropionsäure. Sm. 165° u. Zers. (B. 36, 4309 $C_0H_{11}O_0N$ C. 1904 [1] 448).
 - *28) 1-Tyrosin (H. 37, 18 C. 1903 [1] 60).
 - *44) Aethylester d. 4-Oxyphenylamidoameisensäure. [Sm. 123° (J. pr. [2] 67, 341 C. 1903 [1] 1339).
 - *51) Amid d. α-Oxy-α-[4-Methoxylphenyl]essigsäure. Sm. 163—164° (B. 37, 3174 C. 1904 [2] 1303).
 - *55) Damascenin. Ba, $HCl + H_2O$ (Ar. 242, 295 C. 1904 [2] 131; Ar. 242, 299 C. 1904 [2] 456).
 - *60) Aethyl-2-Amidophenylester d. Kohlensäure (Am. 31, 475 C. 1904 [2] 94).
 - 73) Methylamidomethyl-3,4-Dioxyphenylketon (Adrenalon). Zers. bei 230°. HCl, H₂SO₄ (D.R.P. 152814 C. 1904 [2] 270; C. 1904 [2] 1512;
 - 74) Damascenin-S + 3H₂O. Sm. 144°. HCl + H₂O, (2HCl, PtCl₄ + 4H₂O), HBr + H₂O, H₂SO₄ + H₂O, Cu + $\frac{1}{2}$ H₂O, Ag + H₂O (4r. 242, 304) C. 1904 [2] 456).
 - 75) r-Tyrosin. Sm. 316° u. Zers. (A. 219, 170; 307, 142; B. 30, 2981; 32, 3640). — *II, *929*.

77) α-Oxamido-α-Phenylpropionsäure. Fl. (B. 36, 4315 C. 1904 [1] 449). 78) 6-Oxy-2-Methyl-5-Aethylpyridin-3-Carbonsäure. Sm. 305° u. Zers.

Sm. 145—146°

76) 3 - Dimethylamido - 1 - Oxybenzol - ? - Carbonsäure.

u. Zers. (D.R.P. 50835). - *II, 916.

 $C_0H_{11}O_3N$

 $[G. \ 33 \ [2] \ 168 \ C. \ 1903 \ [2] \ 1283).$ 79) 6-Oxy-2,5-Dimethylpyridin-6-Methyläther-3-Carbonsäure. Sm. 167—168° (G. 33 [2] 170 C. 1903 [2] 1283). 80) Methylester d. ?-Amido-2-Oxy-1-Methylbenzol-4-Carbonsäure. HCl (C. 1897 [2] 672). — *II, 922.
81) Methylester d. 3-Methylamido-4-Oxybenzol-1-Carbonsäure. Sm. 154° (A. 325, 329 C. 1903 [1] 770). 82) Aethylester d. 2-Hydroxylamidóbenzol-1-Carbonsäure. Sm. 78,5° (B. 36, 2700 C. 1903 [2] 996). 83) Aethyl-4-Amidophenylester d. Kohlensäure (Am. 31, 467 C. 1904) 84) 1-Acetat d. 5-Amido-4-Oxy-1-Oxymethylbenzol. Sm. 105—107° (D.R.P. 148977 C. 1904 [1] 699). 5-Nitro-2-Dimethylamidobenzaldoxim. C. 1904 [2] 322). CoHIIONN Sm. 125° (M. 25, 369 17) 3-Nitro-4-Dimethylamidobenzaldoxim. Sm. 132° (B. 37, 1030 C. 1904 [1] 1207).
18) 5-Nitro-2-Oxy-1,3-Dimethyl-2,3-Dihydrobenzimidazol. Sm. 128° (B. 36, 3969 C. 1904 [1] 177). 19) α-Phenylsemicarbazidoessigsäure. Sm. 190—191° (B. 36, 3884) C. 1904 [1] 27). 20) Amid d. 3-Nitro-4-Dimethylamidobenzol-1-Carbonsäure. Sm. 210° (B. 37, 1741 C. 1904 [1] 1599). 4) α -[?-Bromphenyl] äther d. $\alpha \hat{\beta} \gamma$ -Trioxypropan. Sm. 81° (B. 36, 2004 CoH.OBr C. 1903 [2] 357). $C_9H_{11}O_4N$ *3) Dimethyläther d. 2-Nitro-1-Dioxymethylbenzol (B. 36, 3652 C. 1903 [2] 1332). *7) Dimethyläther d. 6-Nitro-3,4-Dioxy-1-Methylbenzol. (118—120°) (B. 37, 1933 C. 1904 [2] 129; M. 25, 890 C. 1904 [2] 1313). 31) 6-Nitro-3,4-Dioxy-1-Propylbenzol. Sm. 73° (Ar. 242, 87 C. 1904 32) 2,4,6-Trioxy-5-Oximidomethyl-1,3-Dimethylbenzol. Zers. bei 168° (M. 24, 879 C. 1904 [1] 369). 33) Aethylester d. α-Cyan-β-Acetoxylpropen-α-Carbonsäure. Sd. 115 bis 135°₁₁ u. Zers. (Bl. [3] 31, 337 C. 1904 [1] 1135). 34) Aethylester d. 2-Furanoylamidoessigsäure. Sm. 77° (B. 37, 2957) C. 1904 [2] 993). 35) Aethylester d. ?-Acetylamidofuran-2-Carbonsäure. Sm. 177,50 (C. r. 136, 1455 C. 1903 [2] 292). CoH11O4N8 13) Semicarbazidomethyl-3, 4-Dioxyphenylketon. Sm. 187 (B. 34, 100). - *III, 109. $C_9H_{11}O_6N$ 6) Trimethyläther d. 4-Nitro-1,2,3-Trioxybenzol. Sm. 440 (B. 37, 117 C. 1904 [1] 585). C9H11O5N3 C 44.8 - H 4.5 - O 33.2 - N 17.4 - M. G. 241.1) Methyläther d. 3,5-Dinitro-4-Methylamido-2-Oxy-1-Methylbenzol. Sm. 117,5° (J. pr. [2] 67, 558 C. 1903 [2] 240). 2) Methyläther d. 3,5-Dinitro-2-Aethylamido-1-Oxybenzol. Sm. 123° (R. 23, 113 C. 1904 [2] 205). 3) Methyläther d. 4,6-Dinitro-3-Aethylamido-1-Oxybenzol. Sm. 1480 (R. 23, 121 C. 1904 [2] 206). C 40,1 — H 4,1 — O 29,7 — N 26,0 — M. G. 269. $\mathbf{C}_{9}\mathbf{H}_{11}\mathbf{O}_{5}\mathbf{N}_{5}$ 1) 3, 5-Dinitro-2-Methylamido-4-Methylnitrosamido-1-Methylbenzol. Sm. 186—187° (J. pr. [2] 67, 561 C. 1903 [2] 241). 1) γs-Lakton d. ζ-Chlor-s-Oxy-β-Ketohexan-αγ-Dicarbonsäure-α-Methylester. Fl. Cu (C. r. 136, 436 C. 1903 [1] 698). C 37,9 - H 3,8 - O 33,7 - N 24,6 - M. G. 285. $C_0H_{11}O_5C1$ CoH,ON 1) 2,4,6-Trinitro-3,5-Di[Methylamido]-1-Methylbenzol. Sm. 156° (R. 23, 127 C. 1904 [2] 201). C9H1NS 13) Phenyläther d. α-Imido-α-Merkaptopropan. HCl (B. 36, 3466 C. 1903 [2] 1243).

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14) Phenylamid d. Thiopropionsäure. Sm. 67-67,5° (B. 36, 587 C. C9H,NS 1903 [1] 830). Dimethyläther d. Phenylimidodimerkaptomethan (C. r. 136, 452) CoH, NS. C. 1903 [1] 699). *7) Aethylphenylamidodithioameisensäure. NH₄ (J. pr. [2] 67, 286 C. 1903 [1] 1306). 10) Methylbenzyläther d. Imidodimerkaptomethan. HJ (Bl. [3] 29, 54 C. 1903 [1] 446; C. r. 135, 976 C. 1903 [1] 139).

3) Methyläther d. α -Thioureïdo- α -Phenylimido- α -Merkaptomethan. $C_0H_{11}N_3S_2$ Sm. 122° (Am. 30, 172 C. 1903 [2] 871). 4) Methyläther d. α -[β -Phenylthioureïdo] - α -Imido- α -Merkaptomethan. Sm. 124° (Am. 30, 172 C. 1903 [2] 871). 3) 4-Propylphenyljodidchlorid. Sm. 68° (A. 327, 304 C. 1903 [2] 353). $C_9H_{11}Cl_2J$ 4) 4-Dichlorjodoso-3-Aethyl-1-Methylbenzol. Sm. 108° (J. pr. [2] 69, 437 C. 1904 [2] 589). *7) 4-Methylnitrosamido-1, 3-Dimethylbenzol. Fl. (A. 327, 109 C. 1903 $C_9H_{12}ON_2$ [1] 1213). *37) β-Phenylhydrazon-α-Oxypropan. Sm. 106° (A. 335, 253 C. 1904 [2] 1283). Amid d. Methylphenylamidoessigsäure. Sm. 163° (B. 37, 2637 C. 1904 [2] 518) *50) Amid d. 4-Methylphenylamidoessigsäure. Sm. 168° (D.R.P. 142559 C. 1903 [2] 81). *56) Aethyläther d. α -Phenylamido- α -Imido- α -Oxymethan. Ag (C. 1904) [1] 1560). 66) 2-Dimethylamidobenzaldoxim. Sm. 87-87,2° (84-85°) (B. 37, 978 C. 1904 [1] 1079; M. 25, 373 C. 1904 [2] 322). 67) 4-Dimethylamidobenzaldoxim. Sm. 144° (B. 20, 3195; B. 37, 860 C. 1904 [1] 1206). 68) 4-Aethylamidobenzaldoxim. Sm. 118° (B. 37, 858 C. 1904 [1] 1206).
69) 2-[β-Acetylamidoäthyl] pyridin. Sd. 175° (B. 37, 172 C. 1904 [1] 1) 4-Oxy-1-Dichlormethyl-1,4-Dimethyl-1,4-Dihydrobenzol. Sm. 960 CoH12OCl2 (B. 36, 1868 C. 1903 [2] 286). $C_9H_{12}O_2N_2$ *43) 5-Nitro-3-Dimethylamido-1-Methylbenzol. Sm. 52° (C. 1903 [2]) 1051). 53) α -[β -Oxyäthyl]- β -Phenylharnstoff. Sm. 122—123° (B. 36, 1280 C. 1903 [1] 1215). 54) Aethylester d. 3,4-Diamidobenzol-I-Carbonsäure. Sm. 112-1130 (D.R.P. 151725 C. 1904 [1] 1587). 55) Aethylester d. 3, 6-Dimethyl-1, 2-Diazin-4-Carbonsäure. Sm. 55-57° (B. 36, 512 C. 1903 [1] 654; B. 37, 2187 C. 1904 [2] 240). 56) Amid d. 2-Oxyphenylamidoessigmethyläthersäure. Sm. 153-154° (Bl. [3] 29, 967 C. 1903 [2] 1118). 57) Amid d. 4-Oxyphenylamidoessigmethyläthersäure. Sm. 145—146° (Bl. [3] 29, 967 C. 1903 [2] 1118). 13) 2.6-Diketo-1,3-Diäthylpurin (Diäthylxanthin). Sm. 2080 (C. 1904) $C_{0}H_{12}O_{2}N_{4}$ [2] 1497), 14) Hydrazid d. β-Phenylureïdoessigsäure. Sm. 186,5°. HCl (J. pr. [2] 70, 247 C. 1904 [2] 1463). *1) Dibromdihydro-α-Camphylsäure. Sm. 165—170° u. Zers. (Soc. 83, $\mathbf{C}_{9}\mathbf{H}_{12}\mathbf{O}_{2}\mathbf{Br}_{2}$ 852 C. 1903 [2] 572). *2) Dibromdihydro-β-Ćamphylsäure. Sm. 172° u. Zers. (Soc. 83, 870 C. 1903 [2] 574). *7) Aethylester d. 5-Acetyl-4-Methylpyrazol-3-Carbonsäure. Sm. 1210 $C_0H_{12}O_3N_2$ (Am. 325, 181 C. 1903 [1] 646). 8) 3-Acetyl-4-Methyl-1-Aethylpyrazol-5-Carbonsäure. Sm. 167—168° (B. 36, 1131 C. 1903 [1] 1138). Methylderivat d. γ-Dicyanacetessigsäureäthylester. Sm. 110—113° (A. 332, 138 C. 1904 [2] 190). *16) 1,2,4-Trimethylbenzol-5-Sulfonsäure. $+ H_{B}PO_{4}$ (R. 21, 356 C. 1903) $C_9H_{12}O_8S$ [1] 151). *21) Aethylester d. 1-Methylbenzol-4-Sulfonsäure. Sm. 32-33° (A. 327, 121 *C.* **1903** [1] 1221).

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$C_9H_{12}O_3S$	25) α-Oxyäthyl-4-Methylphenylsulfon. Sm. 52—72° (Am. 31, 166 C 1904 [1] 875).	λ.
$C_9H_{12}O_3Se$	1) d-Methylphenylselenetin. d-Bromcamphersulfonat (Soc. 81, 1554 C 1903 [1] 22, 144).).
	2) 1-Methylphenylselenetin. d-Bromcamphersulfonat (Soc. 81, 1555 (1903 [1] 22, 144).	7.
$\mathbf{C}_{9}\mathbf{H}_{12}\mathbf{O}_{4}\mathbf{N}_{2}$	*3) Diäthylester d. β -Cyan- β -Imidoäthan- $\alpha\alpha$ -Dicarbonsäure (D. d. Di	i-
	cyanmalonsäure). Sm. 93° (A. 332, 118 C. 1904 [2] 189). 5) I-Methyläther-4-Aethyläther d. 5-Nitro-2-Amido-1, 4-Dioxybenzol	l.
	 Sm. 148° (D.R. P. 141975 C. 1903 [1] 1380). α-Cyan-α-Oxyessig-[β-Cyan-α-Aethoxylpropyl]äthersäure. Sm. 145 	0
	(C. 1904 [1] 159). 7) Aethylester d. 1-Acetyl-3-Keto-5-Methyl-2, 3-Dihydropyrazol-2.	-
	Carbonsäure. Sm. 58° (P. Gutmann, Dissert., Heidelberg 1903). 8) Diäthylester d. isom. Dicyanmalonsäure. Sm. 123° (A. 332, 119	9
$C_0H_{12}O_4N_4$	C. 1904 [2] 189). 3) 3,5-Dinitro-2,4-Di[Methylamido]-1-Methylbenzol. Su. 169-170	
-012 - 44	(J. pr. [2] 67, 546 C. 1903 [2] 240). 4) 2,4-Dinitro-3,5-Di[Methylamido]-1-Methylbenzol. Sm. 140° (R. 23	
OTT OR	126 C. 1904 [2] 200). 2) α-Aethylsulfon-α-Phenylsulfonmethan. Sm. 110—111° (B. 36, 30)	•
$\mathbf{C}_0\mathbf{H}_{12}\mathbf{O}_4\mathbf{S}_2$	C. 1903 [1] 500).	
	3) 2,4-Di[Methylsulfon]-I-Methylbenzol. Sm. 153—154° (J. pr. [2] 68 335 C. 1903 [2] 1172).	•
	4) Dimethylester d. 1-Methylbenzol-2,4-Disulfinsäure. Fl. (J. pr. [2 68, 335 C. 1903 [2] 1172).	
$C_9H_{12}O_5N_6$	*1) Dipyruvintriureid $+ 2 H_2 O$ (C. r. 136, 507 C. 1903 [1] 763).	
$\mathbf{C}_{0}\mathbf{H}_{12}\mathbf{O}_{5}\mathbf{Br}_{2}$	58° (B. 37, 3295 C. 1904 [2] 1041).	
$\mathbf{C}_{9}\mathbf{H}_{12}\mathbf{O}_{7}\mathbf{S}_{2}$	2) γ -Oxy- α -Phenylpropan- $\alpha\gamma$ [oder $\beta\gamma$]-Disulfonsäure. K + H ₂ O, B ₁ + 3 H ₂ O (B. 24, 1806; B. 37, 4045 C. 1904 [2] 1648).	a
$\mathbf{C_9H_{12}N_2S}$	*13) Aethyläther d. Phenylamidoimidomerkaptomethan (Soc. 83, 553 C. 1903 [1] 1123).	3
	14) Methyläther d. 2-Methylphenylamidoimidomerkaptomethan. Sm	١.
	101—102°. HCl (Soc. 83, 556 C. 1903 [1] 1123; Am. 30, 179 C. 1903 [2] 872).	
	15) Methyläther d. 4-Methylphamidamiddemankariamathan. Sm 65-67°. HCl, HJ (Soc. 83, 111.1993	j.
$\mathbf{C}_{0}\mathbf{H}_{12}\mathbf{N}_{2}\mathbf{S}_{2}$	1903 [2] 871). 5) Methylester d. β -[2-Methylphenyl]hydrazidodithioameisensäure	·.
	Sm. 148° (B. 36, 1370 C. 1903 [1] 1342). 6) Methylester d. β -[3-Methylphenyl]hydrazidodithioameisensäure	
$\mathbf{C}_{_{0}}\mathbf{H}_{_{1}{_{2}}}\mathbf{N}_{_{4}}\mathbf{S}_{_{2}}$	Sm. 111° (B. 36, 1372 C. 1903 [1] 1343). *1) 2,4-Di[Thioureido]-1-Methylbenzol (4-Methyl-1,3-Phenylendithioharn	
$C_0H_{13}ON$	stoff) (D.R. P. 144762 C. 1903 [2] 814; D.R.P. 139429 C. 1903 [1] 904)	١.
001118011	44) 2-Methyläthylamido-I-Oxybenzol. HCl (Soc. 83, 757 C. 1903 [1 1419 C. 1903 [2] 447).	
	45) Methyläther d. 2-Amido-5-Oxy-1, 3-Dimethylbenzol. Sm. 42,5-43 (B. 36, 2039 C. 1903 [2] 360).	
	46) Nitril d. 5-Keto-1, 3-Dimethylhexahydrobenzol-1-Carbonsäure. Sm 92—94° (B. 37, 4061 C. 1904 [2] 1650).	
$C_9H_{13}ON_8$	*7) β-Phenylamido-α-Aethylharnstoff. Sm. 151° (B. 36, 1377 C. 1908) [1] 1344).	
	16) α -Amido- β -Aethyl- α -Phenylharnstoff. Sm. 88° (B. 36, 1376 C. 1908 [1] 1344).	3
	17) Inn. Anhydrid d. 2-Semicarbazon-1-Oxymethylen-R-Heptamethylen. Sm. 181-183° (A. 329, 128 C. 1903 [2] 1323).	_
	18) Inn. Anhydrid d. 3-Semicarbazon-4-Oxymethylen-1-Methylhera	-
$C_0H_{18}OC1$	hydrobenzol. Sm. 154—157° (A. 329, 119 C. 1903 [2] 1322). *2) Chlorid d. α-Oktin-α-Carbonsäure. Sd. 113—116° ₂₅ (C. r. 136, 556)	4
$\mathbf{C_9H_{13}O_2N}$	C. 1903 [1] 825). *3) Anhydroegonin. (HBr, Br ₂) (Ar. 242, 9 C. 1904 [1] 731).	
	*7) Aethylester d. 2,5-Dimethylpyrrol-3-Carbonsäure. Sm. 117° (O. 1903 [2] 1281).	1.

 $\mathbf{C_9H_{13}O_2N}$ 12) 2,5-Dimethyl-1-Aethylpyrrol-3-Carbonsäure (C. 1903 [2] 1281). 4) ?-Nitro-3,4-Di[Methylamido]-1-Methylbenzol. Sm. 1940 (B. 36, $C_9H_{13}O_2N_3$ 3972 C. 1904 [1] 178). 5) Aethyläther d. β -[4-Oxyphenyl]amidoharnstoff. Sm. 190° u. Zers. (A. 334, 185 C. 1904 [2] 835). *2) Bromdihydro-β-Camphylsäure. Sm. 130° (Soc. 83, 866 Anm. C. 1903 $C_9H_{13}O_9Br$ [2] 574). 8) isom. Bromdihydro-β-Camphylsäure. Sm. 137—138° (Soc. 83, 866 C. 1903 [2] 574). 4-Tri[Oxymethyl]methylpyridin (* 1818). bis 157°. HCl (B. 36, 2909 C. 1903 [2] 890). Frigenhrinhydraf. Sm. 206—207° (C. 1901). $C_9H_{13}O_3N$ 20) 4-Tri[Oxymethyl]methylpyridin (4-tert. Trioxybutylpyridin). Sm. 156 21) Adrenalin (Suprarenin; Epinephrinhydrat). Sm. 206—207° (C. 1901 [2] 1354; 1903 [1] 1156; B. 36, 1836; W. 24, 263 C. 1903 [2] 302; C. r. 135, 1142 C. 1903 [1] 274; B. 36, 2944 C. 1903 [2] 895; Soc. 75, 192 C. 1904 [1] 816, 957; B. 37, 1388 C. 1904 [1] 1526; B. 37, 2022 C. 1904 [2] 239; C. r. 139, 502 C. 1904 [2] 1156; C. 1904 [2] 1512, 1575; B. 37, 4149 C. 1904 [2] 1743). —*III, 666. 22) Tropinon-O-Carbonsaure. Na (B. 34, 1458; A. 326, 51 C. 1903 [1] 841). — *III, 610. C₉H₁₃O₃Cl 1) Aethylester d. α -Chlor- δ -Keto- β -Methyl- β -Penten- γ -Carbonsäure. Sd. 120°₁₉₋₂₀ (C. 1904 [1] 956). Aethylester d. 2-Chlormethyl-5-Methyl-2, 3-Dihydrofuran-4-Carbonsäure. Sm. 57-58°; Sd. 141-143°₁₇ (C. r. 137, 12 C. 1903 [2] $C_9H_{13}O_4N$ 10) Aethyläther d. Verb. C₇H₉O₄N. Sm. 80° (G. 34 [1] 466 C. 1904 [2] 537). 11) Verbindung (aus Dimethylamin u. 2,4-Dioxybenzol-1-Carbonsäureäthylester). Sm. 95° (D.R.P. 141101 C. 1903 [1] 1058). 2) 2,4-Dinitro-1,3,5-Tri[Methylamido]benzol. Śm. 220° (R. 23, 129 $C_9H_{13}O_4N_5$ C. 1904 [2] 201). C9H13O4Br 7) $\delta \zeta$ -Lakton d. δ -Oxy- β -Methylhexan- $\varepsilon \zeta$ -Dicarbonsäure. Sm. 144—145° u. Zers. (A. 331, 146 C. 1904 [1] 933). $C_9H_{13}O_4P$ 2) Dimethylester d. α-Oxybenzylphosphinsäure. Sm. 99° (C. r. 135, 1119 C. 1903 [1] 285). 3) Dimethyl-?-Methylphenylester d. Phosphorsäure (D.R.P. 142971 C. 1903 [2] 171). $C_9H_{18}O_6N$ 2) γ -Oximido- δ -Ketoheptan- $\alpha \eta$ -Dicarbonsäure. Sm. 133—136° u. Zers. (B. **37**, 3826 C. **1904** [2] 1607). $C_9H_{13}O_6Br$ 1) Trimethylester d. β-Brompropan-αβγ-Tricarbonsäure. Sm. 98—99° (B. 36, 3292 C. 1903 [2] 1167). C 35,2 — H 4,2 — O 46,9 — N 13,7 — M. G. 307.

1) Trimethyläther d. Nitrotrioxydichinolnitrosäure. Na. (Am. 29, 117 C. 1903 [1] 709). $C_9H_{13}O_9N_3$ 1) Jodäthylat d. 4-Jod-2, 6-Dimethylpyridin. Sm. 239-2400 (A. 331, $C_9H_{13}NJ_2$ 256 C. 1904 [1] 1223). 2) 4-Thiocarbonyl-2, 6-Dimethyl-1-Aethyl-1, 4-Dihydropyridin. $C_9H_{13}NS$ 248° (A. 331, 258 C. 1904 [1] 1223). 1) 4-Selenocarbonyl-2, 6-Dimethyl-1-Aethyl-1, 4-Dihydropyridin. Sm. $C_9H_{13}NSe$ 254° (A. 331, 263 C. 1904 [1] 1223). *4) Methyläther d. α-[α-Methylhydrazido]-α-Phenylimido-α-Merkaptomethan. Sm. 132° (B. 37, 2322 C. 1904 [2] 312). $C_0H_{13}N_3S$ 8) 4-Dimethylamidophenylthioharnstoff. Sm. 180-181° (C. 1903 [1] 1258). 9) α -Amido- β -Methyl- α -Benzylthioharnstoff. Sm. 129° (B. 37, 2327 C. 1904 [2] 313). 10) Methyläther d. α-[α-Phenylhydrazido]-α-Methylimido-α-Merkaptomethan. Fl. (B. 37, 2331 C. 1904 [2] 314).
*7) Nitrosodihydrolaurolaktam. Sm. 138—139° (Am. 32, 288 C. 1904

> 10) Anhydrid d. i-Nitrosamidolauronsäure. Sm. 138° (Am. 28, 485 C. **1903** [1] 329).

C, H, O, N,

[2] 1222).

11) Nitril d. α -Oxyessig-[β -Cyan- α -Aethoxybutyl]äthersäure. Sm. 115° (C. 1904 [1] 160).

 C₉H₁₄O₂N₉ 12) Aethylester d. 1-Amido-2,5-Dimethylpyrrol-3-Carbonsäure. Sm. 87-88° (B. 37, 2191 C. 1904 [2] 240).
 13) Aethylester d. 3,6-Dimethyl-4,5-Dihydro-1,2-Diazin-4-Carbonsäure. Sm. 108-109° (108-110°); Sd. 245-248° (B. 35, 4313 C. 1903 [1] 335; B. 36, 502 C. 1903 [1] 654; B. 37, 2186 C. 1904 [2] 239). 14) Verbindung (aus d. Säure $C_{10}H_{14}O_4N_2$). $= (C_9H_{14}O_2N_2)_x$ (\dot{C} . 1904 [1] *4) Dibromid d. cis-trans-Campholytischen Säure (i-Dibromdihydro-α-Campholytsäure). Sm. 111—116° (Soc. 83, 854 U. 1903 [2] 572). $C_9H_{14}O_9Br_9$ 9) Dibromtetrahydro-α-Camphylsäure. Sm. 156° (Soc. 83, 851 C. 1903 [2] 572). C9H14O8N2 6) 2,4,6-Triketo-5-Aethyl-5-Propylhexahydro-1,3-Diazin. Sm. 1460 (D.R.P. 146496 C. 1903 [2] 1484; A. 335, 346 C. 1904 [2] 1381). 7) 2,4,6-Triketo-1-Methyl-5,5-Diathylhexahydro-1,3-Diazin. 154,5° (D.R.P. 146496 C. 1903 [2] 1484; A. 335, 348 C. 1904 [2] 1381). 5-Formylamido-6-Amido-2, 4-Diketo-1, 3-Diäthy1-1, 2, 3, 4-Tetra-hydro-1, 3-Diazin. Sm. 235° (C. 1904 [2] 1497). $C_0H_{14}O_3N_4$ CoH14O4N2 4) 2,6-Dioximidohexahydrobenzol-1-Propionsäure. Sm. 203-206" (B. **37**, 3824 C. **1904** [2] 1607). 8) $\delta \epsilon$ -Dibrom- β -Methylhexan- $\epsilon \zeta$ -Dicarbonsäure. Sm. 168—171° u. Zers. $C_9H_{14}O_4Br_9$ (A. 331, 145 C. 1904 [1] 933). *3) Sulfocamphylsäure (Soc. 83, 835 C. 1903 [2] 571). $C_9H_{14}O_5S$ 2) Carboxylamidoacetyl $\mathbf{C}_{9}\mathbf{H}_{14}\mathbf{O}_{7}\mathbf{N}_{4}$. 1003 [1] 1304). C 29,2 — H 3,8 — O 51,9 — N 15,1 — M. G. 370. 1) Säure (aus d. Verb. $C_0H_{10}O_0N_4$). Sm. 149°. $Cu_2 + H_2O$, Ag_4 (B. 36, $C_9H_{14}O_{12}N_4$ 1510 O. 1903 [1] 1302). C9H,4NCl *1) Trimethylphenylammoniumchlorid. + 6 HgCl₂ (J. pr. [2] 66, 173 C. 1903 [1] 561). $C_9H_{14}NJ$ *1) Trimethylphenylammoniumjodid. Sm. 2160 (B. 37, 414 C. 1904 [1] 943). 1) Trimethylphenylammoniumnonajodid. Sm. 69° (J. pr. [2] 67, 350 C9H14NJ9 C. 1903 [1] 1297). CoH15ON *19) Inn. Anhydrid d. Amidodihydrolauronolsäure. Sd. 285° (Am. 32, 288 C. 1904 [2] 1222). *32) Pulegenonoxim. Sd. 237—242° (A. 327, 133 C. 1903 [1] 1412). 38) 5-Keto-2, 2-Dimethyl-4-Isopropylidentetrahydropyrrol. (B. 36, 3368 C. 1903 [2] 1186).
39) 5-Hexylisoxazol. Sd. 103-104°₁₅ (C. r. 138, 1341 C. 1904 [2] 187).
40) Piperidon (aus Pinophoron). Sd. 136-140°₁₄ (B. 37, 240 C. 1904 [1] 726). 41) Amid d. βε-Dimethyl-βδ-Hexadiën-γ-Carbonsäure. Sm. 59°; Sd 142—145°₁₄ (B. 36, 3364 C. 1903 [2] 1186). 42) Amid d. r-α-Campholytsäure. Sin. 103° (C. r. 138, 696 C. 1904 [1] 1086). C9H15ON8 α-Semicarbazon-β-Oktin. Sm. 90° (C. r. 138, 1341 C. 1904 [2] 187). 4) Semicarbazon d. Ketobicyklo [1, 2, 3] okton. Sm. 189-190 (B. 36, 3612 C. 1903 [2] 1372). C9H15O2N *6) Hydroecgonidin. HCl, (HCl, $AuCl_3 + 5H_2O$) (Ar. 242, 9 C. 1904 [1] 731). *18) \$\beta\$-Isomerochinen. (2 HCl, PtCl₄), (HCl, AuCl₃) (M. 24, 307 C. 1903 [2] 297). *19) 2, 2, 5, 5-Tetramethy: -2, 5-Dihydropyrrol-3-Carbonsäure (11. 36, 3371 C. 1903 [2] 1187; 25) Allomerochinen. HCl, (2HCl, PtCl, + 3H₂O), (HCl, AuCl₃) (M. 23, 460). — *III, 640. 26) Amid d. i-Camphononsäure. Sm. 215° (Am. 28, 484 (J. 1903 [1] 329). 9) 2-Brom-1,1,2-Trimethyl-R-Pentamothylen-5-Carbonsaure. Sm. $C_9H_{15}O_9Br$ 108° u. Zers. (Soc. 85, 145 C. 1904 11725).

10) i-Bromdihydro-α-Campholytsäure. Sm. 100" (Soc. 83, 854 C. 1903

*2) d-Ecgonin. $HCl + \frac{1}{2}[1]H_2O$ (A. 326, 63 C. 1903 [1] 841).

[2] 572).

 $C_9H_{15}O_8N$

C₉H₁₆O₃N *17) r-Eegonin (Pseudotropin-C-Carbonsäure). Sm. 251° u. Zers. (A. 326, 61 C. 1903 [1] 841). *18) Pseudotropin-O-Carbonsäure + 3 H₂O. Sm. 201—202° u. Zers. HCl + 1[2] H₂O, (HCl, AuCl₃) (A. 326, 54 C. 1903 [1] 841).
22) Acetylscopolin. Sm. 53°; Sd. oberh. 250° (D.R.P. 79864). — *III, 619. 23) 5-Oximido-1, 3-Dimethylhexahydrobenzol-1-Carbonsaure. Sm. 155 bis 156° (B. 37, 4072 C. 1904 [2] 1652). 24) Verbindung (aus Trimethylamin u. 1,2,3-Trioxybenzol). Sm. 160° (D.R.P. 141101 C. 1903 [1] 1058). $C_9H_{15}O_3N_3$ 10) 5-Semicarbazon-1,1-Dimethyl-R-Pentamethylen-2-Carbonsäure. Sm. 217° (C. 1903 [1] 923; Soc. 85, 140 C. 1904 [1] 728).

6) Verbindung (aus Dimethylamin u. 3,4,5-Trioxybenzol-1-Carbonsäuremethylester). Sm. 164° (D. R. P. 141101 C. 1903 [1] 1058). $C_9H_{15}O_5N$ 2) Triäthylester d. Stickstofftricarbonsäure. Sd. 146-147 12 (B. 36, $C_0H_{15}O_6N$ 740 *C.* **1903** [1] 827). CoHitON 2) N-Aethylester d. Carboxylamidoacetylamidoacetylamidoessigsäure C. .. 1903 [1] 1 ... 136, 2 ... O. 1903 [2] 1111). C 37,4 — H 5,2 — O 33,2 — N 24,2 — M. G. 289. $\mathbf{C}_{9}\mathbf{H}_{15}\mathbf{O}_{6}\mathbf{N}_{5}$ 1) Methylester d. δ-Oximido-ε-Semicarbazidohydroxylhydrazon-γ-Keto- β -Methylpentan- β -Carbonsäure. Sm. 170° u. Zers. (Soc. 83, 1256 *C*. **1903** [2] 1423) Verbindung (aus r-α-Campholytsäureamid). Sm. 175° (C. r. 138, 696 CoHINCL C. 1904 [1] 1086). 15) 2-Di[Dimethylamido]methylfuran. (2HCl, PtCl₄) (A. 335, 376 CoHigON2 C. 1904 [2] 1406). 16) 5-Keto-3-Hexýl-4, 5-Dihydropyrazol. Sm. 1970 (C. r. 136, 755 C. 1903 [1] 1019).
 5-Keto-3-Methyl-4-Amyl-4, 5-Dihydropyrazol. Sm. 186—187° (*Bl*. [3] **31**, 761 *C*. **1904** [2] 343). 18) 5-Keto-4-Methyl-3-Amyl-4, 5-Dihydropyrazol. Sm. 164-165° (Bl. [3] 31, 596 C. 1904 [2] 26). 19) 5-Keto-3-Methyl-4-Isoamyl-4,5-Dihydropyrazol. Sm. 217—218° (Bl. [3] 31, 761 C. 1904 [2] 343). 20) 5-Keto-4-Methyl-3-Isoamyl-4, 5-Dihydropyrazol. Sm. 177-178° (Bl. [3] 31, 599 C. 1904 [2] 26). 21) 5-Keto-4-Aethyl-3-Isobutyl-4,5-Dihydropyrazol. Sm. 106° (Bl. [3] 31, 595 C. 1904 [2] 26). 22) 5-Keto-3,4-Dipropyl-4,5-Dihydropyrazol. Sd. 190-200 14 (Bl. [3] 31, 594 C. 1904 [2] 26). 23) 5-Keto-3-Propyl-4-Isopropyl-4, 5-Dihydropyrazol. (Bl. [3] 31, 594 C. 1904 [2] 26). 1) Dihydrochlorid d. Phoron. Fl. (B. 36, 3536 C. 1903 [2] 1368). 2) Dihydrobromid d. Phoron. Sm. 19° (B. 36, 3536 C. 1903 [2] 1368). C9H18OCl2 $C_9H_{16}OBr_2$ 1) Xanthogenat d. 2-Oxy-1-Methylhexahydrobenzol. Sd. 149-151 % is $C_0H_{16}OS_2$ [C. 1903 [2] 289).11) Pseudotropylamincarbamat (B. 31, 1209). — *III, 614. $C_9H_{16}O_2N_2$ 3) Diäthylester d. α -Isopropylidenhydrazin- $\alpha'\beta$ -Dicarbonsäure (Acet- $C_9H_{16}O_4N_2$ essigesterhydrazoncarbonester). Sm. 640 (P. Gutmann, Dissert., Heidelberg *2) Diäthylester d. Carboxylamidoacetylamidoessigsäure (a - Carb- $C_0H_{16}O_5N_2$ äthoxylglycylglycinäthylester). Sm. 87° (B. 36, 2097 C. 1903 [1] 1303; B. 36, 2110 C. 1903 [2] 345). 4) isom. Diäthylester d. Carboxylamidoacetylamidoessigsäure (β -Carbäthoxylglycylglycinäthylester). Sm. 148-150° (B. 36, 2097 C. 1903 [1] 1303) d. Carboxylamidoacetylamidoacetylamidoessigsäure - N -2) Amid CoHIGO,N4 Aethylester (Carbäthoxyldiglycylglycinamid). Sm. 235° (B. 36, 2101 C. 1903 [1] 1304). C 40.9° — H 6.1 — O 42.4 — N 10.6 — M. G. 264. 1) Kaseansäure. Sm. 192° . Cu₃ + $3\,\mathrm{H}_2\mathrm{O}$, HCl (B. 37, 1597 C. 1904 [1] 1449; H. 42, 289 C. 1904 [2] 958). $\mathbf{C}_{9}\mathbf{H}_{16}\mathbf{O}_{7}\mathbf{N}_{2}$

1) Aethylidenmalonäthylesterhydrosulfonsäure. K, Ba (B. 37, 4057

CoHIAO7S

C. 1904 [2] 1649).

C₉H₁₇O₈N

 $\mathbf{C}_{9}\mathbf{H}_{17}\mathbf{O}_{3}\mathbf{N}_{3}$

C 33,3 — H 4,9 — O 44,4 — N 17,3 — M. G. 324. $C_9H_{16}O_9N_4$ 1) Säure (aus d. Verb. C₁₇H₄₀O₁₈N₄). (B. 36, 1509 C. 1903 [1] 1302). Sm. 229°. 4 HCl, $Cu + 2H_2O$ 1-Chlor-3-Dimethylamido-2, 3, 4, 5-Tetrahydro-R-Hepten. (2HCl. C9H16NCl PtCl₄) (A. 326, 10 C. 1903 [1] 778). *2) Jodmethylat d. Tropidin. Sm. noch nicht bei 300° (A. 326, 20 C₉H₁₆NJ C. 1903 [1] 778) *4) 5-Oximido-1,1,3-Trimethylhexahydrobenzol. Sm. 84-85° (C. 1904) C₉H₁₇ON [2] 653). *11) a-Methyltropin (3-Dimethylamido-1-Oxy-2, 3, 4, 5-Tetrahydro-R-Hepten). Sd. 247-248. (HCl, AuCl₃) (A. 326, 9 C. 1903 [1] 778). *23) 4 - Oximido - 1, 1, 3 - Trimethylhexahydrobenzol. Sm. 108-109° (C. 1904 [2] 653). *24) a-Isooxim d. 4-Keto-1,1,3-Trimethylhexahydrobenzol. Sm. 115 bis 116° (C. 1904 [2] 654). *26) 2-Oximido-1,1,4-Trimethylhexahydrobenzol (Pulenonoxim). Sm. 94 bis 95°; Sd. 117°₁₂ (A. 329, 100 C. 1903 [2] 1071). *27) Pulenonisooxim. Sm. 96—97°; Sd. 145—150°₂₇ (A. 329, 100 C. 1903 [2] 1071). 33) β -Isooxim d. 4-Keto-1,1,3-Trimethylhexahydrobenzol. Sm. 106 bis 108° (C. 1904 [2] 654). 34) α -Isooxim d. 5-Keto-1,1,3-Trimethylhexahydrobenzol. bis 112° (C. 1904 [2] 654). 35) β -Isooxim d. 5-Keto-1,1,3-Trimethylhexahydrobenzol. Sm. 82-84° (*C*. **1904** [2] 654). 36) 2-Oximido-1-Methyl-3-Isopropyl-R-Pentamethylen. Sm. 79° (B. 37, 238 C. 1904 [1] 726). 37) Pseudomethyltropin. Sd. 242-244° (A. 326, 15 C. 1903 [1] 778). 38) Nitril d. γ -Oxybutteramyläthersäure. Sd. 108—110 $^{0}_{12}$ (C. r. 136, 96 C. 1903 [1] 455). $C_9H_{17}ON_3$ 15) α-Semicarbazon-α-Hexahydrophenyläthan. Sm. 175° (Bl. [3] 29, 1051 C. 1903 [2] 1437). 16) 3-Semicarbazonmethyl-l-Methylhexahydrobenzol. Sm. 158-1590 (B. 37, 852 C. 1904 [1] 1146). 17) 5-Semicarbazon-1,1,2-Trimethyl-R-Pentamethylen. Sm. 210-2120 (C. r. 136, 1143 C. 1903 [1] 1410). 18) 2-Semicarbazon-1,1,3-Trimethyl-R-Pentamethylen. Sm. 150-151° (A. 329, 94 C. 1903 [2] 1071). 24) γ-Oximido-δ-Ketononan. Sm. 33-34; Sd. 131-132°, (Bl. [3] 31, 1168 $C_0H_{17}O_2N$ C. 1904 [2] 1701). 25) 3-Acetyl-4,4,6-Trimethyltetrahydro-1,3-Oxazin. Sd. 235-237°. (HCl, AuCl₃) (M. 25, 832 C. 1904 [2] 1239). 26) 2,2,5,5-Tetramethyltetrahydropyrrol-3-Carbonsäure + II_aO. Sm. 220° u. Zers. HCl, (2 HCl, PtCl₄) (B. 36, 3359 C. 1903 [2] 1185).
27) Säure (aus Pinophoronpiperidon). Sm. 204—206° (B. 37, 240 C. 1904). [1] 726). 28) Gem. Imid d. Buttersäure u. Isovaleriansäure. Sm 88° (C. r. 137, 326 C. 1903 [2] 712). 29) Gem. Imid. d. Isobuttersäure u. Valeriansäure. Sm. 84° (C. r. 137, 326 C. 1903 [2] 712). 30) Gem. Imid d. Isobuttersäure u. Isovaleriansäure. Sm. 940 (C. r. 137, 326 C. 1903 [2] 712). C9H17O2N8 5) Di[Methylamid] d. 1-Methyltetrahydropyrrol-2-Carbonsäure. Sm. 122.5—123° (A. 326, 109 C. 1903 [1] 843). $C_9H_{17}O_2Br$ 8) α-Bromoktan-α-Carbonsäure. Fl. (C. r. 138, 698 C. 1904 [1] 1066).

*2) γ -Oximido- β -Methylheptan- ζ -Carbonsäure. Sm. 76—77° (75°) (\hat{A} . 327, 142 \hat{C} . 1903 [1] 1412; \hat{B} . 37, 238 \hat{C} . 1904 [1] 726).

*10) Aethylester d. ε-Oximido-β-Methylpentan-ε-Carbonsäure. Sd. 156°₁₆ (Bl. [3] 31, 1074 C. 1904 [2] 1457).
12) Isobutylester d. α-Oximidovaleriansäure. Sm. 16°; Sd. 152°₁₅ (Bl.

4) ε-Semicarbazon-β-Methylhexan-β-Carbonsäure. Sm. 163° (A. 329,

[3] **31**, 1072 *C*. **1904** [2] 1457).

93 C. 1903 [2] 1071).

C9H17O3N8 5) Aethylester d. δ -Semicarbazon- β -Methylbutan- δ -Carbonsäure. Sm. 158—159° (Bl. [3] 31, 1151 C. 1904 [2] 1707). 6) $\beta\beta$ -Dimethylpropylester d. α -Semicarbazonpropionsäure. Sm. 168° (C. r. 138, 985 C. 1904 [1] 1398). 7) β -Methylbutylester d. α -Semicarbazonpropionsäure. Sm. 151,5° (M. 25, 1098 C. 1904 [2] 1698). $C_0H_{17}NBr_2$ *4) Brommethylat d. Bromtropan (A. 326, 35 C. 1903 [1] 779). 18) $\gamma \delta$ -Dioximidononan. Sm. 158—158,5° (Bl. [3] 31, 1168 · C. 1904 [2] $C_0H_{18}O_2N_2$ 1701). 19) Dipropylacetylharnstoff. Sm. 192,5° (A. 335, 367 C. 1904 [2] 1382). 20) Ureid d. Dipropylessigsäure (Dipropylacetylharnstoff). Sm. 192,5° (D.R.P. 144431 C. 1903 [2] 813).

3) Base (aus Mathelandia eton). Sm. 47°; Sd. 120°. (2HCl, PtCl₄)
(B. 36, 215 ... 1903 ...) $C_9H_{18}O_8N_2$ 4) r-α-[α-Amidoisocapronyl]amidopropionsäure (r-Leucylalanin). Sm. 245° u. Zers. (B. 37, 3105° C. 1904 [2] 1210). 5) Aethylester d. r-α-Ureïdo-γ-Methylvaleriansäure. Sm. 92—93° (Bl. [3] **31**, 1181 *C*. **1904** [2] 1710). *1) αα-Dinitrononan. K (J. pr. [2] 67, 139 C. 1903 [1] 865; G. 33 [1] 416 C. 1903 [2] 551; G. 34 [2] 54 C. 1904 [2] 693). $C_9H_{18}O_4N_2$ 3) Dimethylglykoseureïd. Sm. 157° u. Zers. (R. 22, 65 C. 1903 [1] 1081). 2) Phoronhydrodisulfonsäure. Na₂ + $2^{1}/_{2}$ H₂O, Ba + 4H₂O (B. 37, $C_0H_{18}O_6N_2$ $C_9H_{18}O_7S_2$ 4047 C. 1904 [2] 1648). $C_9H_{18}NJ$ 4) Jodnethylat d. i-s-Conicein. Sm. 185-186° (B. 37, 1891 C. 1904 [2] 238). *19) Amid d. Oktan-α-Carbonsäure. Sm. 98—99° (B. 36, 2549 C. 1903 CoH,oN [2] 654). *29) 4-Dimethylamido-1-Oxy-R-Heptamethylen. Sd. 251° (A. 326, 7 C. 1903 [1] 777). 34) β -Oximido- δ -Methyloktan. Fl. (Soc. 81, 1595 C. 1903 [1] 16, 132). 35) 4,4,6-Trimethyl-3-Aethyltetrahydro-1,3-Oxazin. Sd. 176—180°. (2 HCl, PtCl₄), (HCl, AuCl₈), Pikrat (M. 25, 843 C. 1904 [2] 1240). 36) Dipropylamid d. Propionsäure. Sd. 227° (B. 36, 3526 C. 1903 [2] 1326). 37) Diisobutylamid d. Ameisensäure. Sd. 109-110 15 (B. 36, 2476 C. 1903 [2] 559). 2) α -Semicarbazonoktan. Sm. 101° (C. r. 138, 699 C. 1904 [1] 1066). 3) β -Semicarbazonoktan. Sm. 121° (122—123°) (C. r. 136, 755 C. 1903 $C_0H_{19}ON_3$ [1] 1019; Bl. [3] 31, 1157 C. 1904 [2] 1707). 4) γ -Semicarbazonoktan. Sm. 117—117,5° (Bl. [3] 31, 1158 C. 1904 [2] 1707). 5) δ -Semicarbazon- β -Methylheptan. Sm. 124° (Bl. [3] 31, 1157 C. 1904 [2] 1707). 6) ε-Semicarbazon-β-Methylheptan. Sm. 132-133° (Bl. [3] 31, 1158 C. 1904 [2] 1708). 7) δ-Semicarbazonmethylheptan. Sm. 100-101° (Bl. [3] 31, 306 C. 1904 [1] 1133). 8) 5 Semicarbazon-4-Isopropyl-1-Methyl-R-Pentamethylen. Sm. 203 bis 204° (C. 1904 [2] 1045). Amyläther d. δ-Brom-α-Oxybutan. Sd. 114—115°₁₆ (C. r. 138, 976 C. 1904 [1] 1400).
 Amyläther d. δ-Jod-α-Oxybutan. Sd. 128—129°₁₆ (C. r. 138, 976 C. r. 138, C,H,OBr C,H,OJ C. 1904 [1] 1400). 8) Betain d. α-Triäthylamidopropionsäure. Sm. 90-92°. (HCl, AuCl_s) $C_9H_{19}O_2N$ (B. 36, 4192 C. 1904 [1] 263). Aethylester d. β-Diäthylamidopropionsäure. Sd. 192°₇₅₈ (J. pr. [2] 68, 347 C. 1903 [2] 1318). 10) Aethylester d. Dipropylamidoameisensäure. Sd. 97020 (B. 36, 2287 C. 1903 [2] 563). *1) Triäthyläther d. β -Brom- $\alpha\alpha\gamma$ -Trioxypropan (B. 36, 3670 C. 1903 C9H19O8Br [2] 1313). 1) Nitril d. α-Triäthyljodammoniumpropionsäure. Sm. 178-179° u. $C_9H_{19}N_2J$ Zers. (B. 36, 4191 C. 1904 [1] 263).

 $C_9H_6O_3N_3CI$

11) α -norm, Butyl- β -[d-sec. Butyl]harnstoff. Sm. 47° (Ar. 242, 70) CoHoON. C. 1904 [1] 999)

12) α -[r-sec. Butyl]- β -[d-sec. Butyl]harnstoff. Sm. 132° (Ar. 242, 71 C. 1904 [1] 999).

*1) Triacetondihydroxylamin. Sm. 112-114° (B. 36, 657 Anm. C. 1903) CoHooON

*2) Triisopropylester d. Borsäure. Sd. 140° (B. 36, 2221 C. 1903 [2] 420).
*8) s-rd-Di[sec. Butyl]thioharnstoff. Sm. 113° (Ar. 242, 60 C. 1904) $C_0H_{21}O_3B$ C,H,N,S [1] 998).

9) α -[norm. Butyl]- β -[d-sec. Butyl]thioharnstoff. Sm. 32° (Ar. 242, 60) C. 1904 [1] 998).

10) α -[d-sec. Butyl]- β -[tert. Butyl]thioharnstoff. Sm. 132° (Ar. 242. 60) C. 1904 [1] 998)

11) α -Isobutyl- β -[d-sec. Butyl]thioharnstoff. Sm. 51° (Ar. 242, 60) C. 1904 [1] 998).

12) $\alpha \alpha$ -Diäthyl- β -[d-sec. Butyl]thioharnstoff. Sm. 60-60,5° (Ar. 242. 61 C. 1904 [1] 998).

*1) Methyläthyl-sec. Hexylsulfinchlorid (J. pr. [2] 66, 460 C. 1903 [1] 561). C9H9, CIS *2) Methyldiisobutylsulfinchlorid. + 4 HgCl, (J. pr. [2] 66, 463 C. 1903 [1] 561).

2) Methylhydroxyd d. β -Dimethylamido- δ -Oxy- β -Methylpentan. (2 Chlorid + AuCl₈), Pikrat (M. 25, 145 G. 1904 [1] 866). $\mathbf{C_9H_{28}O_2N}$ *1) Hexamethyltrimethylendiammoniumchlorid. + 211gCl, (J. pr. |2| CoH24N2Cl2

66, 519 C. 1903 [1] 561). 1) Hexamethyltrimethylendiammoniumtrijodid. Sm. 205° (J. pr. [2] 67. $C_9H_{24}N_9J_6$

352 C. 1903 [1] 1298). 1) Hexamethyltrimethylendiammoniumpentajodid. Sm. 150° (J. pr. [2] $C_9H_{24}N_2J_{10}$ 67, 352 C. 1903 [1] 1297).

 $\mathbf{C}_{0}\mathbf{H}_{94}\mathbf{N}_{2}\mathbf{J}_{18}$ 1) Hexamethyltrimethylendiammoniumenneajodid. Sm. 100° (J. pr. [2] 67, 352 C. 1903 [1] 1297).

- 9 TV -

*1) P-Dinitro-2-[βββ-Trichloräthyliden amidobenzol-1-Carbonsäure. Sm. 187° (B. 35, 3899 U. 1903 [1] 29). C9H4O4N3Cl3

4) 8,9-Dibrom-2-Oxychinolin. Sm. 1886 (J. pr. [2] 68, 102 (J. 1903) CoHEONBr. [2] 445).

CoH,OoNCL 4) Nitril d. 3,5-Dichlor-2-Acetoxylbenzol-I-Carbonsäure. Sm. 78" (B. 37, 4029 C. 1904 [2] 1718).

12) 2-Chlor-8-Nitrochinolin. Sm. 1520 (J. pr. [2] 68, 101 (J. 1903 [2] C₂H₅O₂N₂C1

CoH,ON.Br. 1) P-Tribrom-3-Nitro-2-Methylindol. Sm. 200° u. Zers. (G. 34 [2] 63 C. 1904 [2] 710).

 17) Nitril d. β-Oxy-α-[4-Chlorphenyl]akrylsäure. Sm. 159–161° (J. pr. [2] 67, 393 C. 1903 [1] 1357).
 2) 6.5-D²-2-1-K₁(α-2-V₁ : 1-3, 4-Dihydro-1, 3-Benzdiazin. Zers. 1903 CoHoONC1

CoHON,Br.

*2) Nitrii d. 5-Chlor-2-Acetoxylbenzol-1-Carbonsäure. Sm. 70 -80° C₉H₆O₂NCl (B. 37, 4026 C. 1904 [2] 1717).

4) Nitril d. 3-Chlor-4-Acetoxylbenzol-1-Carbonsäure. Sm. 89-90° (B. 37, 4034 C. 1904 [2] 1719).

1) P-Dichlor-2-Cyanmethylamidobenzol-1-Carbonsäure. Sm. 222 CoHON,Cl bis 223° (D.R.P. 148615 C. 1904 [1] 1046). 3) 5-Phenyl-1, 2, 3-Thiodiazol-4-Carbonsäure. CoHeONS

(4. 333, 5 C. 1904 [2] 780).
3) 2-[4-Chlorphenyl]-1,2,3,6-Oxtriazin-5-Carbonsäure. Sm. 145" Sm. 157° u. Zers.

u. Zers. (Soc. 83, 1249 C. 1903 [2] 1422) C9H6O5N8CI 1) Nitril d. 5-Chlor-3,6-Dinitro-2-Oxybenzoläthyläther-I-Carbon-

säure. Sm. 65° (R. 21, 426 C. 1903 [1] 511). 1) 6,8-Dibrom-4-Thiocarbonyl-2-Methyl-3,4-Dihydro-1,3-Benz- $C_9H_6N_2Br_2S$ diazin. Sm. noch nicht bei 290" (C. 1903 [2] 1195). C,H,ONS,

*1) 2-Thiocarbonyl-4-Keto-3-Phenyltetrahydrothiazol. Sm. 192 bis 193° (M. 24, 500 C. 1903 [2] 836).

	— 100 — 5 IV.
$\mathbf{C_9H_7ON_2Cl_8}$	2) Nitril d. $3 - [\beta \beta \beta - \text{Trichlor} - \alpha - \text{Oxyäthyl}]$ amidobenzol-1- Carbon-
$\mathbf{C_9H_7ON_2Br}$	säure. Sm. 102—103° u. Zers. (C. 1904 [2] 103). 2) Nitril d. 4-Brombenzoylamidoessigsäure. Sm. 174° (B. 36, 1646 C. 1903 [2] 32).
$\mathbf{C}_{9}\mathbf{H}_{7}\mathbf{ON}_{8}\mathbf{S}_{2}$	2) Phenylamid d. Isorhodanformylthioameisensäure. Sm. 172° (Soc. 83, 89 C. 1903 [1] 230, 447).
$C_9H_7OClBr_2$	 Aldehyd d. α-Chlor-αβ-Dibrom-β-Phenylpropionsäure. Fl. (C. r. 136, 1073 C. 1903 [1] 1345).
$C_9H_7O_2NBr_2$	2) 4, 6-Dibrom-5-Oxy-1, 3-Dimethylbenzoxazol. Sm. 221—222° (B. 37, 1427 C. 1904 [1] 1418).
$C_9H_7O_2N_2Cl$	3) P-Chlor-2-Cyanmethylamidobenzol-1-Carbonsäure. Sm. 199—200° (D. R. P. 148615 C. 1904 [1] 1045).
$\mathbf{C}_{9}\mathbf{H}_{7}\mathbf{O}_{2}\mathbf{N}_{2}\mathbf{Br}$	5) P-Brom-2-Cyanmethylamidobenzol-1-Carbonsäure. Sm. 209—210° (D. R. P. 148615 C. 1904 [1] 1045).
$C_9H_7O_2ClBr_2$	*1) α -Chlor- $\alpha\beta$ -Dibrom- β -Phenylpropionsäure. Sm. 138° (<i>C. r.</i> 136, 1073 <i>C.</i> 1903 [1] 1345).
$C_9H_7O_3N_2C1$	*4) Nitril d. 5-Chlor-6-Nitro-2-Oxybenzoläthyläther-1-Carbon- säure (R. 21, 426 O. 1903 [1] 511).
$C_9H_7O_8N_2Cl_8$	2) Dimethylamid d. 2,4,6-Trichlor-3-Nitrobenzol-1-Carbonsäure. Sm. 111,25° (R. 21, 392 C. 1903 [1] 152).
	3) 2,5,6-Trichlor-4-Nitro-3-Methylphenylamid d. Essigsäure. Sm.
$\mathbf{C_9H_7O_4NCl_2}$	noch nicht bei 200° (Soc. 83, 334 C. 1903 [1] 870). 1) P-Dichlorphenylamidoessigsäure-2-Carbonsäure. Sm. 237—238° (D.R.P. 148615 C. 1904 [1] 1045).
$\mathbf{C_9H_7O_5NCl_2}$	1) Aethyl-4,6-Dichlor-2-Nitrophenylester d. Kohlensäure. Sm. 38—39° (Am. 32, 30 C. 1904 [2] 697).
$\mathbf{C}_{9}\mathbf{H}_{7}\mathbf{N}\mathbf{Br}\mathbf{J}$	1) Chinolinbromojodid. Sm. 138—140° (C. r. 136, 1471 C. 1903 [2] 296).
$\mathbf{C}_{9}\mathbf{H_{7}N_{4}S_{8}P}$	1) Phosphortrithiocyanat + Anilin. Sm. 116—117° (Soc. 85, 358 C. 1904 [1] 1407).
C_9H_8ONC1	3) 2-Chlorbenzimidomethyläther. HCl (Soc. 83, 768 C. 1903 [2] 200, 437).
$C_9H_8ONCl_3$	13) 4-Methylphenylamid d. Trichloressigsäure. Sm. 113° (A. 332, 264 C. 1904 [2] 699).
C ₉ H ₈ ON ₂ S	8) 1-Acetylamidobenzthiazol. Sm. 186—187° (A. 212, 329; B. 36, 3136 C. 1903 [2] 1071). — IV, 682.
C ₉ H ₈ ON ₂ Se	1) Phenylamid d. Selencyanessigsäure. Sm. 129° (Ar. 241, 200 C. 1903 [2] 103).
C ₉ H ₈ OClBr	 Chlorid d. α-Brom-β-Phenylpropionsäure. Sd. 132—133°₁₂ (B. 37, 3065 C. 1904 [2] 1207).
C ₉ H ₈ O ₂ NCl	 3) Aldehyd d. 6-Chlor-3-Acetylamidobenzol-1-Carbonsäure. Sm. 163—164° (M. 25, 368 C. 1904 [2] 322). 3) βββ-Trichlor-α-Oxyäthyläther d. anti-Benzaldoxim (Chloral-
CHONCI	benzaldoxim). Sm. 62° (D.R.P. 66877). — *III, 34. 1) 2,6-Diketo-7-Chlormethyl-8-Trichlormethyl-1,3-Dimethyl-
$C_9H_8O_2N_4Cl_4$ $C_9H_8O_8NCl$	purin. Sm. 204—205° (D.R.P. 146715 C. 1903 [2] 1485). *5) 3-Chlorbenzoylamidoessigsäure (C. 1903 [1] 412).
0,118081101	 14) 2-Chlorbenzoylamidoessigsäure. Fl. Ca (Ö. 1903 [1] 412). 15) 4-Chlorbenzoylamidoessigsäure + H₂O. Sm. 143° (Ö. 1903 [1] 412).
$C_9H_8O_8NBr$	*2) 4-Brombenzoylamidoessigsäure. Sm. 162° (B. 36, 1647° C. 1903 [2] 32).
	7) 2-Brombenzoylamidoessigsäure + H ₂ O. Sm. 153° (C. 1903 [1] 412).
	8) 3-Brombenzoylamidoessigsäure + H ₂ O. Sm. 183° (C. 1903 [1] 412). 9) Aethylester d. 4-Brom-2-Nitrosobenzol-1-Carbonsäure. Sm.
$\mathrm{C_9H_8O_8NJ}$	155° (B. 37, 1872 C. 1904 [1] 1601). *2) 3-Jodbenzoylamidoessigsäure (H. 37, 436 C. 1903 [1] 1150).
$\mathbf{C_9H_8O_3N_2Cl_2}$	3) 2-Jodbenzoylamidoessigsäure. Ba (H. 37, 435 C. 1903 [1] 1150). 1) ?-Dichlor-4-Nitro-3-Methylphenylamid d. Essigsäure. Sm. 181—183° (Soc. 83, 334 C. 1903 [1] 870).
$C_9H_8O_3N_3Cl$	2) Nitril d. 5-Chlor-3-Nitro-6-Amido-2-Oxybenzoläthyläther- 1-Carbonsäure. Sm. 157° (R. 21, 427 C. 1903 [1] 511).

$C_9H_8O_8N_4S$	1) 1-Phenylazoimidazol-1 ⁴ -Sulfonsäure. Zers. oberh. 270—280° (B. 37, 699 C. 1904 [1] 1562).
$C_9H_8O_4NC1$	8) ?-Chlorphenylamidoessigsäure-2-Carbonsäure. Sm. 210-215° (D.R.P. 148615 C. 1904 [1] 1045).
	9) Acetat d. 5-Chlor-3-Nitro-4-Oxy-1-Methylbenzol. Sm. 95° (A. 328, 312 C. 1903 [2] 1246).
$\mathbf{C_9H_8O_4NBr}$	14) P-Bromphenylamidoessigsäure-2-Carbonsäure. Sm. 228 (D.R.P.
$\mathbf{C_9H_8O_4N_2S}$	148615 C. 1904 [1] 1045). 1) O-Methyläther d. 3-Nitrobenzoylimidomerkaptooxymethan.
$\mathbf{C_9H_8O_5NCl}$	Sm. 120° (C. 1904 [1] 1559). 8) Aethyl-4-Chlor-2-Nitrophenylester d. Kohlensäure. Sm. 60°
	(Am. 32, 23 C. 1904 [2] 696). 9) Aethyl-6-Chlor-2-Nitrophenylester d, Kohlensäure. Fl. (Am. 32, 26 C. 1904 [2] 696).
$\mathrm{C_9H_8O_5NBr}$	4) Aethyl-4-Brom-2-Nitrophenylester d. Kohlensäure. Sm. 76° (Am. 32, 28 C. 1904 [2] 697).
$\mathbf{C_9H_8O_5N_2Br_2}$	2) Methyläther d. $\beta\beta$ -Dibrom- β -Nitro- α -Oxy- α -[4-Nitrophenyl]-
$\mathrm{C_9H_8O_5Br_2S}$	äthan. Sm. 160—160,5° (A. 325, 16 C. 1903 [1] 287). 1) $\alpha\beta$ -Dibrom- β -[4-Sulfophenyl] propionsäure $+2H_2$ 0. Na $+3H_2$ 0, Na ₂ $+4H_2$ 0, Ba $+4H_2$ 0, Cu $+2H_2$ 0, Anilinsalz, Dimethylanilinsalz, Diäthylanilinsalz (C. 1903 [2] 438).
$\mathrm{C_9H_8O_6NBr}$	1) Aethylcarbonat d. 5-[oder 6]-Brom-4-Nitro-1, 2, 3-Trioxybenzol.
$C_0H_9ONS_2$	Sm. 172° (B. 37, 114 C. 1904 [1] 585). *1) Methylester d. Benzoylamidodithioameisensäure. Sm. 135° (Bl.
$\mathbf{C_9H_9ON_8S}$	[3] 29, 51 C. 1903 [1] 446). *5) 3-Merkapto-5-Keto-4-Methyl-1-Phenyl-4, 5-Dihydro-1, 2, 4-
	Triazol. Sm. 203°. Ag (B. 37, 624 C. 1904 [1] 957; B. 37, 2337 C. 1904 [2] 315).
	8) Methyläther d. 3-Merkapto-5-Keto-1-Phenyl-4, 5-Dihydro- 1, 2, 4-Triazol. Sm. 178° (B. 36, 3152 C. 1903 [2] 1074).
	9) Amid d. Benzoylmethylazothiocarbonsäure. Sm. 170° (B. 36, 4127 C. 1904 [1] 295).
$\mathbf{C_0H_9O_2NBr_2}$	3) Methyläther d. 2,6-Dibrom-4-Acetylamido-l-Oxybenzol. Sm. 2069 (Soc. 81, 1479 C. 1903 [1] 23, 144).
$\mathbf{C_0H_0O_2N_2J}$	1) α -Acetyl- β -[2-Jodphenyl]harnstoff. Sin. 182° (M. 25, 961 C. 1904
	 [2] 1638). 2) α-Acetyl-β-[8-Jodphenyl]harnstoff. Sm. 201° (M. 25, 961 C. 1904)
	[2] 1638). 3) α -Acetyl- β -[4-Jodphenyl]harnstoff. Sm. 248° (M. 25, 958 C. 1904.
$\mathrm{C_0H_0O_2N_4Cl_8}$	[2] 1638). 1) 2,6-Diketo-8-Trichlormethyl-1,3,7-Trimethylpurin. Sm. 182
	bis 184° (D.R.P. 146714 C. 1903 [2] 1484; D.R.P. 153121 C. 1904 [2] 625).
$\mathrm{C_{\varrho}H_{\varrho}O_{\varrho}BrS}$	 α-Merkaptopropion-4-Bromphenyläthersäure. Sm. 112° (C. 1903 1430).
	2) β -Merkaptopropion-4-Bromphenyläthersäure. Sm. 115—116° (C. 1903 [2] 1450).
$C_9H_9O_3NCl_2$	1) Aethylester d. 3,5-Dichlor-2-Oxyphenylamidoameisensäure. Sm. 125° (Am. 32, 31 C. 1904 [2] 697).
	2) Aethyl-4, 6-Dichlor-2-Amidophenylester d. Kohlensäure. 11(1) (Am. 31, 501 C. 1904 [2] 95; Am. 32, 30 C. 1904 [2] 697).
$\mathbf{C_0H_0O_3NBr_2}$	9) Methyläther d. $\beta\beta$ -Dibrom- β -Nitro- α -Oxy- α -Phenyläthan. Sm. 83°
$C_9H_9O_8NS$	(A. 335, 10 C. 1903 [1] 287). *6) Aethylimid d. Benzol-1-Carbonsäure-2-Sulfonsäure. Sm. 946
$\mathbf{C_9H_9O_3N_2Cl}$	(Am. 30, 285 C. 1903 [2] 1120; B. 37, 3254 C. 1904 [2] 1031). *7) Aethyläther d. α -Chlorimido- α -Oxy- α -[3-Nitrophenyl]methan.
	Sm. 61° (<i>Am.</i> 29, 314 <i>C.</i> 1903 [1] 1167). *8) Dimethylamid d. 5-Chlor-2-Nitrobenzol-1-Carbonsäure (<i>C.</i> 1903)
	[2] 1174). *9) Dimethylamid d. 4-Chlor-3-Nitrobenzol-1-Carbonsäure (C. 1903
	(2) 1174).
	*10) Dimethylamid d. 6-Chlor-3-Nitrobenzol-1-Carbonsäure (C. 1903 [2], 1174).

Sm.

 $C_9H_9O_3N_2C1$ 12) Aldehyd d. 6-Chlor-3-Nitro-4-Dimethylamidobenzol-1-Carbonsäure. Sm. 122-1230 (1250) (D.R.P. 90382; B. 37, 865 C. 1904 [1] 1207). — *III, 14. $\mathbf{C_9H_9O_3N_2Br}$ *7) Aethyläther d. α -Bromimido- α -Oxy- α -[3-Nitrophenyl]methan. Sm. 71°; Zers. bei 130° (Am. 29, 316° C. 1903 [1] 1167).
6) Methyläther d. 4-Chlor-5-Nitro-2-Acetylamido-1-Oxybenzol. $C_9H_9O_4N_2C1$ Sm. 193 ° (D. R. P. 137 956 C. 1903 [1] 113). 1) Methyläther d. β -Brom- $\hat{\beta}$ -Nitro- α -Öxy- α -[4-Nitrophenyl]äthan. Sm. 126,5—127° (A. 325, 15 C. 1903 [1] 287). $C_9H_9O_5N_2Br$ 4) β -[4-Bromphenyl]sulfon- α -Oxypropionsäure. Sm. 149° (C. 1903) C9H9O5BrS 2 1429). CoHOONS *1) 1-Aethylester d. 4-Nitrobenzol-1-Carbonsäure-2-Sulfonsäure. K + H₂O, Ba + 4H₂O (Am. 30, 389 C. 1904 [1] 276). 4) Dimethylester d. 2-Nitrobenzol-1-Carbonsäure-4-Sulfonsäure. Sm. 86-87° (M. 23, 1139 C. 1903 [1] 397). C9H9N2CIS 1) Chlormethylat d. 5-Phenyl-1, 2, 3-Thiodiazol. 2 + PtCl₄, + AuCl₈ (A. 333, 14 C. 1904 [2] 781).

1) Jodmethylat d. 5-Phenyl-1,2,3-Thiodiazol + H₂O. Sm. 136° u. C9H9N9JS Zers. (A. 333, 13 C. 1904 [2] 780). 1) Methyläther d. 2-Jod-5-Merkapto-3-Phenyl-2, 3-Dihydro-1, 3, 4-Thiodiazol. Sm. 151° (J. pr. [2] 67, 247 C. 1903 [1] 1264). CoHoNoJS *13) 3-Chlor-2-Methylphenylamid d. Essigsäure. Sm. 156° (B. 37, C9H10NC1 1019 C. 1904 [1] 1202). *38) Dimethylamid d. 3-Chlorbenzol-1-Carbonsäure (C. 1903 [2] 1174). *43) Aethylchloramid d. Benzolcarbonsäure. Sm. 53,5° (Am. 29, 309 C. 1903 [1] 1166). 49) 2-Chlorbenzimidoäthyläther. HCl (Soc. 83, 767 C. 1903 [2] 200, 437). 50) α - oder - β -Chloräthyl-4-Amidophenylketon. Sm. 98° (D.R.P. 105199 C. 1900 [1] 240). — *III, 113. 51) Aldehyd d. 2-Chlor-4-Dimethylamidobenzol-1-Carbonsäure. Sm. 82° (B. 37, 864 C. 1904 [1] 1207). 26) α-oder-β-Bromäthyl-4-Amidophenylketon. (D.R.P. 105199 C. 1900 [1] 240). — *III, 114. $C_9H_{10}ONBr$ Sm. 110—111° 27) Dimethylamid d. 4-Brombenzol-1-Carbonsäure. Sm. 72° (B. 37, 2816 C. 1904 [2] 649). 28) 3-Brom-2-Methylphenylamid d. Essigsäure. Sm. 1580 (B. 37, 1022 C. 1904 [1] 1203). 2) 3-Jod-2-Methylphenylamid d. Essigsäure. Sm. 166° (B. 37, 1024) $C_9H_{10}ONJ$ C. 1904 [1] 1203). Methylester d. β-Phenylthioureïdothiolameisensäure. Sm. 157 bis 158° (Am. 30, 176 C. 1903 [2] 872). CoH,ON,S *2) Methyläther d. 5-Chlor-2-Acetylamido-1-Oxybenzol. Sm. 150° CoH10O2NC1 (J. pr. [2] 67, 158 C. 1903 [1] 871). *6) Methyläther d. 4-Chlor-2-Acetylamido-1-Oxybenzol. Sm. 1040 (D.R.P. 137956 C. 1903 [1] 113). 8) Methylester d. Phenylthiopseudoallophansäure. Sm. 166—167°. HCl (Soc. 83, 559 C. 1903 [1] 1123, 1306). $C_0H_{10}O_2N_2S$ 9) Aethylcyanamid d. Benzolsulfonsäure. Sd. 195% (B. 37, 2811 C. 1904 [2] 593). 1) Phenylamid d. Carbaminselenessigsäure. Sm. 118—119° (Ar. $C_9H_{10}O_2N_2S_0^2$ **241**, 202 *C*. **1903** [2] 103). 1) 3-Jodmethylat d. 6-Nitro-1-Methylbenzimidazol. Sm. 259°. + J₂ (B. 36, 3968 C. 1904 [1] 177). $\mathbf{C}_{0}\mathbf{H}_{10}\mathbf{O}_{2}\mathbf{N}_{3}\mathbf{J}$ 1) 2,6-Diketo-8-Dichlormethyl-1,3,7-Trimethylpurin. Sm. 230

bis 232° (D.R.P. 146714 C. 1903 [2] 1484).

136—137° (Am. 32, 24 C. 1904 [2] 696).

[2] 696).

3) Aethylester d. 3-Chlor-2-Oxyphenylamidoameisensäure.

92—93° (Am. 32, 27 C. 1904 [2] 697).
4) Aethylester d. 5-Chlor-2-Oxyphenylamidoameisensäure.

5) Aethyl-4-Chlor-2-Amidophenylester d. Kohlensäure.

 $(2 \text{ HCl}, \text{ PtCl}_4)$ $(Am. 31, 501 \ C. 1904 \ [2] 95; Am. 32, 23 \ C. 1904$

C₉H₁₀O₂N₄Cl₂

CoH,OoNC1

0 11.	200
$\mathbf{C_9H_{10}O_8NCl}$	6) Aethyl-6-Chlor-2-Amidophenylester d. Kohlensäure. HCl (Am. 31, 501 C. 1904 [2] 95; Am. 32, 27 C. 1904 [2] 696).
$\mathrm{C_9H_{10}O_3NBr}$	3) Methyläther d. β -Brom- β -Nitro- α -Oxy- α -Phenyläthan. Sd. 159° ₁₆ .
	K (A. 325, 8 C. 1903 [1] 287). 4) Aethylester d. 5-Brom-2-Oxyphenylamidoameisensäure. Sm.
	140—142° (Am. 32, 28 C. 1904 [2] 697). 5) Aethyl-4-Brom-2-Amidophenylester d. Kohlensäure. HCl (Am.
$\mathbf{C}_{9}\mathbf{H}_{10}\mathbf{O}_{3}\mathbf{N}_{2}\mathbf{S}$	31, 501 C. 1904 [2] 95; Am. 32, 28 C. 1904 [2] 697). 5) Methylester d. 3-Thioureïdo-4-Oxybenzol-1-Carbonsäure. Sm. 163° (A. 325, 322 C. 1903 [1] 770).
$\mathrm{C_9H_{10}O_3N_3Cl}$	1) 6-Chlor-3-Nitro-4-Dimethylamidobenzaldoxim. Sm. 178° (B. 37, 865 C. 1904 [1] 1207).
$\mathrm{C_9H_{10}O_4N_2S}$	*2) Phenylsulfonacetylharnstoff. Sm. 225° (Ar. 241, 188 C. 1903 [2] 103).
	3) α-Acetyl-β-Phenylsulfonharnstoff. Sm. 155—156° (B. 37, 695 C. 1904 [1] 1074).
$\mathbf{C_9H_{10}O_6N_2S}$	3) 5-Nitro-2-Methylphenylsulfonamidoessigsäure. Sm. 178°. Ba (H. 43, 68 C. 1904 [2] 1607).
$\mathrm{C_9H_{10}N_2ClJ}$	1) Jodmethylat d. 5-oder-6-Chlor-1-Methylbenzimidazol (B. 37, 556 C. 1904 [1] 893).
$\mathrm{C_9H_{10}Cl_2BrJ}$	 αβ-Dichlorathyl-3-Methylphenyljodoniumbromid. Sm. 166° (A. 327, 285 C. 1903 [2] 351).
$\mathbf{C}_{9}\mathbf{H}_{11}\mathbf{ONSe}$	1) Methylphenylamid d. Selenessigsäure. Cu (Ar. 241, 218 C. 1903 [2] 104).
$\mathbf{C_9H_{11}ON_2Cl}$	4) 5-Chlor-2-Oxy-1,3-Dimethyl-2,3-Dihydrobenzimidazol. Sm. 1069 (B. 37, 556 C. 1904 [1] 893).
$\mathbf{C}_{\mathfrak{p}}\mathbf{H}_{\mathfrak{l}\mathfrak{l}}\mathbf{ON_3}\mathbf{Cl_2}$	1) 2-Semicarbazon-1-Dichlormethyl-1-Methyl-1, 2-Dihydrobenzol. Sm. 198° (B. 35, 4214 C. 1903 [1] 161).
	2) 4-Semicarbazon-1-Dichlormethyl-1-Methyl-1,4-Dihydrobenzol. Sm. 184° (B. 35, 4212 C. 1903 [1] 161).
$C_9H_{11}ON_8S$	 Methyläther d. α-Phenylamidothioformylimido-α-Amido-α-Oxy-methan (O-Methylthiophenylureidoisoharnstoff). Sm. 131° (C. 1904 [2] 29).
$\mathbf{C_9H_{11}OCl_2J}$	1) αβ-Dichlorathyl-3-Methylphenyljodoniumhydrat. Salze siehe (4. 327, 284 C. 1903 [2] 351).
$\mathbf{C_{9}H_{11}O_{2}NS}$	8) Allylamid d. Benzolsulfonsäure. Sm. $40.5 - 41^{\circ}$ (B. 36, 2707 C. 1903 [2] 829).
•	11) 2-Weth-Interviewed d. Aethensulfonsäure. Sm. 64-65° (B. 36.
	12) 3-Mothylphonylamid d. Aethensulfonsäure. Sm. 88° (B. 36, 3630 C. 1903 (2, 1903).
	13) 4-Methylphenylamid d. Aethensulfonsäure. Sm. 74° (B. 36, 3628 C. 1903 [2] 1327).
$\mathbf{C}_{9}\mathbf{H}_{11}\mathbf{O}_{2}\mathbf{N}_{2}\mathbf{C}\mathbf{I}$	*1) Methyläther d. 4-Chlor-2-Acetylamido-5-Amido-1-Oxybenzol (D.R.P. 153940 C. 1904 [2] 1014).
$\mathbf{C_9H_{11}O_2N_3S}$	 δ) α-Methylamid d. α-Phenylhydrazin-α-Thiocarbonsäure-β-Carbonsäure. Sm. 90° (B. 37, 2337 C. 1904 [2] 315).
	6) β -Methylamid d. α -Phenylhydrazin- α -Carbonsäure- β -Thiocar-
$\mathbf{C_0H_{11}O_2N_4Cl}$	bonsaure. Na (B. 37, 624 C. 1904 [1] 957). 4) 2,6-Diketo-8-Chlormethyl-1,3,7-Trimethylpurin. Sm. 208-210
$\mathbf{C_9H_{11}O_2ClSe}$	(D.R.P. 146714 C. 1903 [2] 1484). 1) d-Methylphenylselenetinchlorid. $2 + PtCl_4$ (Soc. 81, 1555 C. 1903 [1] 22, 144).
	2) 1-Methylphenylselenetinchlorid. 2 + PtCl. (Soc. 81, 1555 ()
$\mathbf{C_9H_{11}O_2BrSe}$	1903 [1] 22, 144). 1) Methylphenylselenetinbromid. Sm. 111° (Soc. 81, 1553 (f. 1903 [1] 22, 144).
$\mathrm{C_9H_{11}O_2JSe}$	1) i-Methylphenylselenetinjodid. HgJ, (Soc. 81, 1556 C. 1903 [1] 23, 144).
$\mathrm{C_0H_{11}O_3NBr_2}$	1) Dibromdihydrodamascenin. HBr (Ar. 242, 302 C. 1904 [2] 456). 2) Dibromdihydrodamascenin-S. Sm. 206—208° (Ar. 242, 314 C.
$\mathrm{C_9H_{11}O_8NS}$	1904 [2] 457). 7) α -Phenylsulfonamido- β -Ketobutan. Sm. 88—89° (B. 37, 2478 C. 1904 [2] 419).

	— 10 <i>t</i> — 91V.
$\mathbf{C_9H_{11}O_4NS}$	*16) 2-Aethylamid d. Benzol-1-Carbonsäure-2-Sulfonsäure. K ₂ + 2H ₂ O, Ba (<i>Am.</i> 30, 286 C. 1903 [2] 1121).
	19) Aldehyd d. 4-Dimethylamidobenzol-I-Carbonsäure-P-Sulfonsäure. Ca (C. 1898 [1] 813). — *III, 17.
	20) Aethylester d. Phenylsulfonamidoameisensäure. Sm. 109°. Na (B. 37, 694 C. 1904 [1] 1074).
$C_9H_{11}O_5NS$	11) α -[4-Methoxylbenzoyl]methan- α -Sulfonsäure. Na $+$ H ₂ O (B. 37, 4098 C. 1904 [2] 1726).
	12) 2-Aethylester d. Phenylsulfaminsäure-2-Carbonsäure. Na (D.R.P. 147552 C. 1904 [1] 129).
	13) 3-Aethylester d. Phenylsulfaminsäure-3-Carbonsäure. Na (D.R.P. 147552 C. 1904 [1] 129).
	14) 4 - Aethylester d. Phenylsulfaminsäure - 4 - Carbonsäure. Na (D.R.P. 147552 C. 1904 [1] 130).
$C_9H_{12}ON_2S$	7) α -[β -Oxyäthyl]- β -Phenylthioharnstoff. Sm. 138° (<i>B.</i> 36, 1280 <i>C.</i> 1903 [1] 1215).
$C_0H_{12}O_8N_2S$	6) sym-Di[Methylamid] d. Benzol-1-Carbonsäure-2-Sulfonsäure. Sm. 74° (Am. 30, 283 C. 1903 [2] 1120).
~ ~ ~ ~ ~ ~ ~	7) uns-Di[Methylamid] d. Benzol-1-Carbonsäure-2-Sulfonsäure. Zers. oberh. 330° (Am. 30, 284 C. 1903 [2] 1121).
$C_9H_{12}O_4N_2S$	4) α -[β -Phenylureïdo]äthan- β -Sulfonsäure. Zers. bei 175°. Ba + $1^{1}/_{2}$ H ₂ O (B. 36, 3343 C. 1903 [2] 1175).
CH ONE	1) 5,6-Dibrom-4-Semicarbazon-2,2-Dimethyl-1,2,3,4-Tetrahydrobenzol. Sm. 202° u. Zers. (Soc. 83, 123 C. 1903 [1] 449).
$C_9H_{18}O_2NBr_2$	 d-Anhydroecgonindibromid. HCl, (HBr, Br₂) (B. 23, 2873; Ar. 242, 15 C. 1904 [1] 732). α-[4-Methylphenyl]amidoäthan-β-Sulfonsäure. Sm. 254° u. Zers.
C ₉ H ₁₄ ONJ	Ba (M. 25, 685 C. 1904 [2] 1122). 3) Trimethyl-4-Oxyphenylammoniumjodid $+$ H ₂ O. Sm. 190—201°
	(A. 334, 308 C. 1904 [2] 986).
C ₉ H ₁₄ ON ₃ Cl	1) 6-Chlor-4-Semicarbazon-2, 2-Dimethyl-1, 2, 3, 4-Tetrahydrobenzol. Sm. 199° u. Zers. (Soc. 83, 118 C. 1903 [1] 448).
C ₉ H ₁₄ ON ₃ Br	1) 6-Brom-4-Semicarbazon-2,2-Dimethyl-1,2,3,4-Tetrahydrobenzol. Sm. 190° u. Zers. (Soc. 83, 121 C. 1903 [1] 448).
$C_9H_{14}O_2NCl$	2) Chlormethylat d. 2- $[\beta\beta'$ -Dioxyisopropyl]pyridin. $+6$ HgCl ₂ , $(2 + \text{PtCl}_4 + 2\text{H}_2\text{O})$, $+$ AuCl ₂ $(B. 37, 740 \text{ C. } 1904 \text{ [1] } 1089)$.
$\mathrm{C_0H_{14}O_2NBr}$	*2) Anhydroecgoninhydrobromid. HBr (Ar. 242, 16 C. 1904 [1] 732).
$\mathbf{C}_{9}\mathbf{H}_{14}\mathbf{O}_{4}\mathbf{N}_{2}\mathbf{Br}_{2}$	1) Aethylester d. $\alpha\beta$ -Dibrompropionylamidoacetylamidoessigsäure. Sm. 151—152° (B. 37, 2510 C. 1904 [2] 427).
$C_9H_{14}NCIS$	1) Chlormethylat d. 4-Merkapto-2, 6-Dimethylpyridin-4-Methyläther. 2 + PtCl ₄ (A. 331, 258 C. 1904 [1] 1223).
C ₉ H ₁₄ NClSe	1) Chlormethylat d. 4-Seleno-2,6-Dimethylpyridin-4-Methyläther. Sm. 210°. 2 + PtCl ₄ (A. 331, 262 C. 1904 [1] 1223).
C ₉ H ₁₄ NJS	1) Jodmethylat d. 4-Merkapto-2,6-Dimethylpyridin-4-Methyläther. Sm. 236° (A. 331, 258 C. 1904 [1] 1223).
$C_0H_{14}NJSe$	1) Jodmethylat d. 4-Seleno-2, 6-Dimethylpyridin-4-Methyläther. Sm. 219° u. Zers. (A. 331, 262 C. 1904 [1] 1223).
$C_9H_{15}O_4N_2Br$	1) Aethylester d. a-Brompropionylamidoacetylamidoessigsäure. Sm. 135—136° (B. 36, 2985 C. 1903 [2] 1112).
$C_9H_{16}ONC1$	*6) Pulegennitrosochlorid. Sm. 74—75 ⁶ (A. 327, 131 C. 1903 [1] 1412).
	7) Chlorid d. i-Amidolauronsäure. Sm. 266° u. Zers. (Am. 28, 485 C. 1903 [1] 329).
$C_9H_{17}ONBr_2$	*2) Brommethylat d. Brompseudotropin. Sm. 237—238° u. Zers. (A. 326, 18 C. 1903 [1] 778).
	3) Brommethylat d. Bromtropin. Sm. 233° (A. 326, 12 C. 1903 [1] 778). 4) 6.7-Dibrom-3-Dimethylamido-1-Oxy-R-Heptamethylen (α-
	Methyltropindibromid). HBr (A. 326, 11 O. 1903 [1] 778).
$C_9H_{17}OJHg$	*1) lab. $\beta\zeta$ -Dimethylheptan- $\beta\zeta$ -Oxyd- γ -Quecksilberjodid. Fl. (A. 329, 169 C. 1903 [2] 1413).
	2) stab. βζ-Dimethylheptan-βζ-Oxyd-γ-Quecksilberjodid. Sm. 108 bis 110° (A. 329, 170 C. 1903 [2] 1413).

$\mathbf{C}_{9}\mathbf{H}_{17}\mathbf{NClBr}$	3) Chlormethylat d. Bromtropan. 2 + PtCl ₄ (A. 326, 36 C. 1903 [1] 779).
$\mathbf{C}_{\scriptscriptstyle{0}}\mathbf{H}_{\scriptscriptstyle{17}}\mathbf{NBrJ}$	3) Jodmethylat d. Bromtropan (A. 326, 35 C. 1903 [1] 779).
$C_9H_{18}O_2NJ$	2) Jodmethylat d. 1-Methyltetrahydropyrrol-2-Carbonsäureäthyl-
002218022.0	ester. Sm. 88-89° (A. 326, 126 C. 1903 [1] 844).
$C_0H_{10}O_2JHg$	*1) stab. $\beta\zeta$ -Dioxy- $\beta\zeta$ -Dimethylheptan- γ -Quecksilberjodid. Sm. 124
00221002022	bis 125° (A. 329, 173 C. 1903 [2] 1413).
	2) lab. $\beta\zeta$ -Dioxy- $\beta\zeta$ -Dimethylheptan- γ -Quecksilberjodid. Fl. (A.
	329, 172 C. 1903 [2] 1413).
$C_9H_{20}ONC1$	6) Chlormethylat d. 3,4,4,6-Tetramethyltetrahydro-1,3-Oxazin.
09222002102	$2 + \text{PtCl}_4$, $+ \text{AuCl}_3$ (M. 25, 834, 838 C. 1904 [2] 1240).
$\mathbf{C}_{_{0}}\mathbf{H}_{_{22}}\mathbf{ONCl}$	1) Chlormethylat d. δ -Dimethylamido $-\beta$ -Oxy- β -Methylpentan.
Ogazegg Ozv Oz	$2 + PtCl_4$, + AuCl ₃ (M. 25, 848 C. 1904 [2] 1240).
	2) Chlormethylat d. β -Dimethylamido- δ -Oxy- β -Methylpentan.
	+ AuCl ₃ (M. 25, 144 C. 1904 [1] 866).
$\mathbf{C}_{_{0}}\mathbf{H}_{22}\mathbf{ONJ}$	1) Jodnethylat d. β -Dimethylamido- δ -Oxy- β -Methylpentan (M. 25,
0011222	147 C. 1904 [1] 866).
$C_9H_{28}ON_2P$	1) Di[Diäthylamid] d. Methylphosphinsäure. Sd. 145—148° 22 (A.
09112801121	326, 163 C. 1903 [1] 761).
$\mathbf{C}_{\scriptscriptstyle{0}}\mathbf{H}_{\scriptscriptstyle{24}}\mathbf{ON}_{\scriptscriptstyle{3}}\mathbf{P}$	1) Tri[Propylamid] d. Phosphorsäure. Fl. (A. 326, 177 C. 1903
092240218	[1] 819).
$\mathbf{C_0H_{24}O_2N_2Cl_2}$	1) Methylenäther d. Oxytetramethylammoniumchlorid. + PtCl ₄ ,
0.0	+ 2 AuCl ₃ (A. 334, 33 C. 1904 [2] 947).
$\mathbf{C}_{9}\mathbf{H}_{24}\mathbf{N}_{8}\mathbf{SP}$	1) Tri[Propylamid] d. Thiophosphorsäure. Sm. 73° (A. 326, 207
09119111801	C. 1903 [1] 821).
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	- 9 V -
a ** a**a* **	4) 4 (3) 1 (3) (3) (3) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4
$\mathbf{C}_{\scriptscriptstyle{0}}\mathbf{H}_{\scriptscriptstyle{7}}\mathbf{ONCl}_{\scriptscriptstyle{2}}\mathbf{Br}_{\scriptscriptstyle{2}}$	1) 4-Chlor-2, 6-Dibromphenylchloramid d. Propionsäure. Sm. 74°
	(9 0F 101 (7 1004 F17 090)
CITE ON CIC-	(Soc. 85, 181 C. 1904 [1] 938).
$C_9H_7ON_2ClSe$	(Soc. 85, 181 C. 1904 [1] 938). 1) 3 - Chlorphenylamid d. Selencyanessigsäure. Sm. 117—118°
C ₉ H ₇ ON ₂ ClSe	(Soc. 85, 181 C. 1904 [1] 938). 1) 3 - Chlorphenylamid d. Selencyanessigsäure. Sm. 117—118° (Ar. 241, 209 C. 1903 [2] 104).
$\mathbf{C}_{9}\mathbf{H}_{7}\mathbf{ON}_{2}\mathbf{ClSe}$	(Soc. 85, 181 C. 1904 [1] 938). 1) 3 - Chlorphenylamid d. Selencyanessigsäure. Sm. 117—118° (Ar. 241, 209 C. 1903 [2] 104). 2) 4-Chlorphenylamid d. Selencyanessigsäure. Sm. 178° u. Zers.
	(Soc. 85, 181 C. 1904 [1] 938). 1) 3 - Chlorphenylamid d. Selencyanessigsäure. Sm. 117—118° (Ar. 241, 209 C. 1903 [2] 104). 2) 4-Chlorphenylamid d. Selencyanessigsäure. Sm. 178° u. Zers. (Ar. 241, 210 C. 1903 [2] 104).
$C_9H_7ON_2ClSe$ $C_9H_7ON_2BrSe$	(Soc. 85, 181 C. 1904 [1] 938). 1) 3 - Chlorphenylamid d. Selencyanessigsäure. Sm. 117—118° (Ar. 241, 209 C. 1903 [2] 104). 2) 4 - Chlorphenylamid d. Selencyanessigsäure. Sm. 178° u. Zers. (Ar. 241, 210 C. 1903 [2] 104). 1) 3-Bromphenylamid d. Selencyanessigsäure. Sm. 105° (Ar. 241,
	(Soc. 85, 181 C. 1904 [1] 938). 1) 3 - Chlorphenylamid d. Selencyanessigsäure. Sm. 117—118° (Ar. 241, 209 C. 1903 [2] 104). 2) 4 - Chlorphenylamid d. Selencyanessigsäure. Sm. 178° u. Zers. (Ar. 241, 210 C. 1903 [2] 104). 1) 3-Bromphenylamid d. Selencyanessigsäure. Sm. 105° (Ar. 241, 212 C. 1903 [2] 104).
	(Soc. 85, 181 C. 1904 [1] 938). 1) 3 - Chlorphenylamid d. Selencyanessigsäure. Sm. 117—118° (Ar. 241, 209 C. 1903 [2] 104). 2) 4-Chlorphenylamid d. Selencyanessigsäure. Sm. 178° u. Zers. (Ar. 241, 210 C. 1903 [2] 104). 1) 3-Bromphenylamid d. Selencyanessigsäure. Sm. 105° (Ar. 241, 212 C. 1903 [2] 104). 2) 4-Bromphenylamid d. Selencyanessigsäure. Sm. 188° u. Zers.
$\mathrm{C_9H_7ON_2BrSe}$	(Soc. 85, 181 C. 1904 [1] 938). 1) 3 - Chlorphenylamid d. Selencyanessigsäure. Sm. 117—118° (Ar. 241, 209 C. 1903 [2] 104). 2) 4 - Chlorphenylamid d. Selencyanessigsäure. Sm. 178° u. Zers. (Ar. 241, 210 C. 1903 [2] 104). 1) 3-Bromphenylamid d. Selencyanessigsäure. Sm. 105° (Ar. 241, 212 C. 1903 [2] 104). 2) 4-Bromphenylamid d. Selencyanessigsäure. Sm. 188° u. Zers. (Ar. 241, 213 C. 1903 [2] 104).
	(Soc. 85, 181 C. 1904 [1] 938). 1) 3 - Chlorphenylamid d. Selencyanessigsäure. Sm. 117—118° (Ar. 241, 209 C. 1903 [2] 104). 2) 4 - Chlorphenylamid d. Selencyanessigsäure. Sm. 178° u. Zers. (Ar. 241, 210 C. 1903 [2] 104). 1) 3-Bromphenylamid d. Selencyanessigsäure. Sm. 105° (Ar. 241, 212 C. 1903 [2] 104). 2) 4-Bromphenylamid d. Selencyanessigsäure. Sm. 188° u. Zers. (Ar. 241, 213 C. 1903 [2] 104). 1) Phosphoryltrithiocyanat + Anilin. Sm. 120—121° (Soc. 85, 366).
$ ext{C}_9 ext{H}_7 ext{ON}_2 ext{BrSe}$ $ ext{C}_9 ext{H}_7 ext{ON}_4 ext{S}_3 ext{P}$	(Soc. 85, 181 C. 1904 [1] 938). 1) 3 - Chlorphenylamid d. Selencyanessigsäure. Sm. 117—118° (Ar. 241, 209 C. 1903 [2] 104). 2) 4 - Chlorphenylamid d. Selencyanessigsäure. Sm. 178° u. Zers. (Ar. 241, 210 C. 1903 [2] 104). 1) 3-Bromphenylamid d. Selencyanessigsäure. Sm. 105° (Ar. 241, 212 C. 1903 [2] 104). 2) 4-Bromphenylamid d. Selencyanessigsäure. Sm. 188° u. Zers. (Ar. 241, 213 C. 1903 [2] 104). 1) Phosphoryltrithiocyanat + Anilin. Sm. 120—121° (Soc. 85, 366 C. 1904 [1] 1407).
$\mathrm{C_9H_7ON_2BrSe}$	(Soc. 85, 181 C. 1904 [1] 938). 1) 3 - Chlorphenylamid d. Selencyanessigsäure. Sm. 117—118° (Ar. 241, 209 C. 1903 [2] 104). 2) 4 - Chlorphenylamid d. Selencyanessigsäure. Sm. 178° u. Zers. (Ar. 241, 210 C. 1903 [2] 104). 1) 3-Bromphenylamid d. Selencyanessigsäure. Sm. 105° (Ar. 241, 212 C. 1903 [2] 104). 2) 4-Bromphenylamid d. Selencyanessigsäure. Sm. 188° u. Zers. (Ar. 241, 213 C. 1903 [2] 104). 1) Phosphoryltrithiocyanat + Anilin. Sm. 120—121° (Soc. 85, 366 C. 1904 [1] 1407). 2) Aethyl-4-Chlor-6-Brom-2-Nitranger-1eter d. Kohlensäure.
C ₉ H ₇ ON ₂ BrSe C ₉ H ₇ ON ₄ S ₃ P C ₉ H ₇ O ₅ NClBr	(Soc. 85, 181 C. 1904 [1] 938). 1) 3 - Chlorphenylamid d. Selencyanessigsäure. Sm. 117—118° (Ar. 241, 209 C. 1903 [2] 104). 2) 4 - Chlorphenylamid d. Selencyanessigsäure. Sm. 178° u. Zers. (Ar. 241, 210 C. 1903 [2] 104). 1) 3-Bromphenylamid d. Selencyanessigsäure. Sm. 105° (Ar. 241, 212 C. 1903 [2] 104). 2) 4-Bromphenylamid d. Selencyanessigsäure. Sm. 188° u. Zers. (Ar. 241, 213 C. 1903 [2] 104). 1) Phosphoryltrithiocyanat + Anilin. Sm. 120—121° (Soc. 85, 366 C. 1904 [1] 1407). 2) Aethyl-4-Chlor-6-Brom-2-Nitrophenic d. Kohlensäure. Sm. 48—49,5° (Am. 32, 31 C. 1905).
$ ext{C}_9 ext{H}_7 ext{ON}_2 ext{BrSe}$ $ ext{C}_9 ext{H}_7 ext{ON}_4 ext{S}_3 ext{P}$	(Soc. 85, 181 C. 1904 [1] 938). 1) 3 - Chlorphenylamid d. Selencyanessigsäure. Sm. 117—118° (Ar. 241, 209 C. 1903 [2] 104). 2) 4 - Chlorphenylamid d. Selencyanessigsäure. Sm. 178° u. Zers. (Ar. 241, 210 C. 1903 [2] 104). 1) 3-Bromphenylamid d. Selencyanessigsäure. Sm. 105° (Ar. 241, 212 C. 1903 [2] 104). 2) 4-Bromphenylamid d. Selencyanessigsäure. Sm. 188° u. Zers. (Ar. 241, 213 C. 1903 [2] 104). 1) Phosphoryltrithiocyanat + Anilin. Sm. 120—121° (Soc. 85, 366 C. 1904 [1] 1407). 2) Aethyl-4-Chlor-6-Brom-2-Nathanal Calcarda d. Kohlensäure. Sm. 48—49,5° (Am. 32, 31 C. 1903).
C ₉ H ₇ ON ₂ BrSe C ₉ H ₇ ON ₄ S ₃ P C ₉ H ₇ O ₅ NClBr	(Soc. 85, 181 C. 1904 [1] 938). 1) 3 - Chlorphenylamid d. Selencyanessigsäure. Sm. 117—118° (Ar. 241, 209 C. 1903 [2] 104). 2) 4 - Chlorphenylamid d. Selencyanessigsäure. Sm. 178° u. Zers. (Ar. 241, 210 C. 1903 [2] 104). 1) 3-Bromphenylamid d. Selencyanessigsäure. Sm. 105° (Ar. 241, 212 C. 1903 [2] 104). 2) 4-Bromphenylamid d. Selencyanessigsäure. Sm. 188° u. Zers. (Ar. 241, 213 C. 1903 [2] 104). 1) Phosphoryltrithiocyanat + Anilin. Sm. 120—121° (Soc. 85, 366 C. 1904 [1] 1407). 2) Aethyl-4-Chlor-6-Brom-2-Nitrophenylamid d. Kohlensäure. Sm. 48—49,5° (Am. 32, 31 C. 190; 2. 2. 2. 4. Chlor-2, 6-Dibromphenylamid d. Propionsäure. Sm. 185° (Soc. 85, 181 C. 1904 [1] 938).
C ₉ H ₇ ON ₂ BrSe C ₉ H ₇ ON ₄ S ₃ P C ₉ H ₇ O ₅ NClBr	(Soc. 85, 181 C. 1904 [1] 938). 1) 3 - Chlorphenylamid d. Selencyanessigsäure. Sm. 117—118° (Ar. 241, 209 C. 1903 [2] 104). 2) 4 - Chlorphenylamid d. Selencyanessigsäure. Sm. 178° u. Zers. (Ar. 241, 210 C. 1903 [2] 104). 3 - Bromphenylamid d. Selencyanessigsäure. Sm. 105° (Ar. 241, 212 C. 1903 [2] 104). 2) 4 - Bromphenylamid d. Selencyanessigsäure. Sm. 188° u. Zers. (Ar. 241, 213 C. 1903 [2] 104). 1) Phosphorylamid d. Selencyanessigsäure. Sm. 188° u. Zers. (Ar. 241, 213 C. 1903 [2] 104). 1) Phosphorylamid d. Selencyanessigsäure. Sm. 188° u. Zers. (Ar. 241, 213 C. 1903 [2] 104). 2) Aethyl - 4 - Chlor - 6 - Brom - 2 - Virghamid d. Kohlensäure. Sm. 48—49,5° (Am. 32, 31 C. 1904; 2. 2. 2. 2. 2. 2. 2. 2. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3.
$C_9H_7ON_2BrSe$ $C_9H_7ON_4S_3P$ $C_9H_7O_5NClBr$ $C_9H_8ONClBr_2$	(Soc. 85, 181 C. 1904 [1] 938). 1) 3 - Chlorphenylamid d. Selencyanessigsäure. Sm. 117—118° (Ar. 241, 209 C. 1903 [2] 104). 2) 4 - Chlorphenylamid d. Selencyanessigsäure. Sm. 178° u. Zers. (Ar. 241, 210 C. 1903 [2] 104). 1) 3-Bromphenylamid d. Selencyanessigsäure. Sm. 105° (Ar. 241, 212 C. 1903 [2] 104). 2) 4-Bromphenylamid d. Selencyanessigsäure. Sm. 188° u. Zers. (Ar. 241, 213 C. 1903 [2] 104). 1) Phosphoryltrithicoyanat + Anilin. Sm. 120—121° (Soc. 85, 366 C. 1904 [1] 1407). 2) Aethyl-4-Chlor-6-Brom-2-Nitrophenylamid d. Propionsäure. Sm. 185° (Soc. 85, 181 C. 1904 [1] 938). 3) 2-Chlor-2, 6-Dibromphenylamid d. Propionsäure. Sm. 185° (Soc. 85, 182 C. 1904 [1] 938).
C ₉ H ₇ ON ₂ BrSe C ₉ H ₇ ON ₄ S ₃ P C ₉ H ₇ O ₅ NClBr	(Soc. 85, 181 C. 1904 [1] 938). 1) 3 - Chlorphenylamid d. Selencyanessigsäure. Sm. 117—118° (Ar. 241, 209 C. 1903 [2] 104). 2) 4 - Chlorphenylamid d. Selencyanessigsäure. Sm. 178° u. Zers. (Ar. 241, 210 C. 1903 [2] 104). 1) 3-Bromphenylamid d. Selencyanessigsäure. Sm. 105° (Ar. 241, 212 C. 1903 [2] 104). 2) 4-Bromphenylamid d. Selencyanessigsäure. Sm. 188° u. Zers. (Ar. 241, 213 C. 1903 [2] 104). 1) Phosphoryltrithicoyanat + Anilin. Sm. 120—121° (Soc. 85, 366 C. 1904 [1] 1407). 2) Aethyl-4-Chlor-6-Brom-2-Nitrophenylamid d. Propionsäure. Sm. 185° (Soc. 85, 181 C. 1904 [1] 938). 3) 2-Chlor-2, 6-Dibromphenylamid d. Propionsäure. Sm. 185,5° (Soc. 85, 182 C. 1904 [1] 938). 2) 2, 4-Dichlor-6-Bromphenylamid d. Propionsäure. Sm. 185,5° (Soc. 85, 182 C. 1904 [1] 938).
$C_9H_7ON_2BrSe$ $C_9H_7ON_4S_3P$ $C_9H_7O_5NClBr$ $C_9H_8ONClBr_2$	(Soc. 85, 181 C. 1904 [1] 938). 1) 3 - Chlorphenylamid d. Selencyanessigsäure. Sm. 117—118° (Ar. 241, 209 C. 1903 [2] 104). 2) 4 - Chlorphenylamid d. Selencyanessigsäure. Sm. 178° u. Zers. (Ar. 241, 210 C. 1903 [2] 104). 1) 3-Bromphenylamid d. Selencyanessigsäure. Sm. 105° (Ar. 241, 212 C. 1903 [2] 104). 2) 4-Bromphenylamid d. Selencyanessigsäure. Sm. 188° u. Zers. (Ar. 241, 213 C. 1903 [2] 104). 1) Phosphoryltrithiocyanat + Anilin. Sm. 120—121° (Soc. 85, 366 C. 1904 [1] 1407). 2) Aethyl-4-Chlor-6-Brom-2-Nitrangleric d. Kohlensäure. Sm. 48—49,5° (Am. 32, 31 C. 1904; i) 2) 4-Chlor-2,6-Dibromphenylamid d. Propionsäure. Sm. 185° (Soc. 85, 181 C. 1904 [1] 938). 3) 2-Chlor-4,6-Dibromphenylamid d. Propionsäure. Sm. 185,5° (Soc. 85, 182 C. 1904 [1] 938). 2) 2, 4-Dichlor-6-Bromphenylamid d. Propionsäure. Sm. 165° (Soc. 85, 182 C. 1904 [1] 938).
$C_9H_7ON_2BrSe$ $C_9H_7ON_4S_3P$ $C_9H_7O_5NClBr$ $C_9H_8ONClBr_2$	(Soc. 85, 181 C. 1904 [1] 938). 1) 3 - Chlorphenylamid d. Selencyanessigsäure. Sm. 117—118° (Ar. 241, 209 C. 1903 [2] 104). 2) 4 - Chlorphenylamid d. Selencyanessigsäure. Sm. 178° u. Zers. (Ar. 241, 210 C. 1903 [2] 104). 1) 3-Bromphenylamid d. Selencyanessigsäure. Sm. 105° (Ar. 241, 212 C. 1903 [2] 104). 2) 4-Bromphenylamid d. Selencyanessigsäure. Sm. 188° u. Zers. (Ar. 241, 213 C. 1903 [2] 104). 1) Phosphoryltrithiocyanat + Anilin. Sm. 120—121° (Soc. 85, 366 C. 1904 [1] 1407). 2) Aethyl-4-Chlor-6-Brom-2-Nitrophenylamid d. Kohlensäure. Sm. 48—49,5° (Am. 32, 31 C. 1904 [1] 238). 2) 4-Chlor-2, 6-Dibromphenylamid d. Propionsäure. Sm. 185° (Soc. 85, 181 C. 1904 [1] 938). 3) 2-Chlor-4, 6-Dibromphenylamid d. Propionsäure. Sm. 165° (Soc. 85, 182 C. 1904 [1] 938). 2) 2, 4-Dichlor-6-Bromphenylamid d. Propionsäure. Sm. 165° (Soc. 85, 182 C 1904 [1] 938). 3) 2, 6-Dichlor-4-Bromphenylamid d. Propionsäure. Sm. 184°
C ₉ H ₇ ON ₂ BrSe C ₉ H ₇ ON ₄ S ₃ P C ₉ H ₇ O ₅ NClBr C ₉ H ₈ ONClBr ₂ C ₈ H ₈ ONCl ₂ Br	(Soc. 85, 181 C. 1904 [1] 938). 1) 3 - Chlorphenylamid d. Selencyanessigsäure. Sm. 117—118° (Ar. 241, 209 C. 1903 [2] 104). 2) 4 - Chlorphenylamid d. Selencyanessigsäure. Sm. 178° u. Zers. (Ar. 241, 210 C. 1903 [2] 104). 1) 3-Bromphenylamid d. Selencyanessigsäure. Sm. 105° (Ar. 241, 212 C. 1903 [2] 104). 2) 4-Bromphenylamid d. Selencyanessigsäure. Sm. 188° u. Zers. (Ar. 241, 213 C. 1903 [2] 104). 1) Phosphoryltrithiocyanat + Anilin. Sm. 120—121° (Soc. 85, 366 C. 1904 [1] 1407). 2) Aethyl-4-Chlor-6-Brom-2-Natrophenylamid d. Kohlensäure. Sm. 48—49,5° (Am. 32, 31 C. 1904; ; 2) 4-Chlor-2,6-Dibromphenylamid d. Propionsäure. Sm. 185° (Soc. 85, 181 C. 1904 [1] 938). 3) 2-Chlor-4,6-Dibromphenylamid d. Propionsäure. Sm. 165° (Soc. 85, 182 C. 1904 [1] 938). 2) 2,4-Dichlor-6-Bromphenylamid d. Propionsäure. Sm. 165° (Soc. 85, 182 C. 1904 [1] 938). 3) 2,6-Dichlor-4-Bromphenylamid d. Propionsäure. Sm. 184° (Soc. 85, 182 C. 1904 [1] 938).
$C_9H_7ON_2BrSe$ $C_9H_7ON_4S_3P$ $C_9H_7O_5NClBr$ $C_9H_8ONClBr_2$	 (Soc. 85, 181 C. 1904 [1] 938). 1) 3 - Chlorphenylamid d. Selencyanessigsäure. Sm. 117—118° (Ar. 241, 209 C. 1903 [2] 104). 2) 4 - Chlorphenylamid d. Selencyanessigsäure. Sm. 178° u. Zers. (Ar. 241, 210 C. 1903 [2] 104). 1) 3-Bromphenylamid d. Selencyanessigsäure. Sm. 105° (Ar. 241, 212 C. 1903 [2] 104). 2) 4-Bromphenylamid d. Selencyanessigsäure. Sm. 188° u. Zers. (Ar. 241, 213 C. 1903 [2] 104). 1) Phosphoryltrithiocyanat + Anilin. Sm. 120—121° (Soc. 85, 366 C. 1904 [1] 1407). 2) Aethyl-4-Chlor-6-Brom-2-Natrophenylamid d. Kohlensäure. Sm. 48—49,5° (Am. 32, 31 C. 1904 [1] 938). 3) 2-Chlor-4,6-Dibromphenylamid d. Propionsäure. Sm. 185° (Soc. 85, 181 C. 1904 [1] 938). 3) 2-Chlor-4,6-Dibromphenylamid d. Propionsäure. Sm. 165° (Soc. 85, 182 C. 1904 [1] 938). 2) 2,4-Dichlor-6-Bromphenylamid d. Propionsäure. Sm. 165° (Soc. 85, 182 C. 1904 [1] 938). 3) 2,6-Dichlor-4-Bromphenylamid d. Propionsäure. Sm. 184° (Soc. 85, 182 C. 1904 [1] 938). 3) 2,6-Dichlor-4-Bromphenylamid d. Propionsäure. Sm. 184° (Soc. 85, 182 C. 1904 [1] 938). 3) 2,6-Dichlor-4-Bromphenylamid d. Propionsäure. Sm. 184° (Soc. 85, 182 C. 1904 [1] 938). 4) Chlor-β-Merkaptopropion-4-Bromphenyläthersäure (C. 1903).
C ₉ H ₇ ON ₂ BrSe C ₉ H ₇ ON ₄ S ₃ P C ₉ H ₇ O ₅ NClBr C ₉ H ₈ ONClBr ₂ C ₉ H ₈ ONCl ₂ Br	(Soc. 85, 181 C. 1904 [1] 938). 1) 3 - Chlorphenylamid d. Selencyanessigsäure. Sm. 117—118° (Ar. 241, 209 C. 1903 [2] 104). 2) 4 - Chlorphenylamid d. Selencyanessigsäure. Sm. 178° u. Zers. (Ar. 241, 210 C. 1903 [2] 104). 1) 3-Bromphenylamid d. Selencyanessigsäure. Sm. 105° (Ar. 241, 212 C. 1903 [2] 104). 2) 4-Bromphenylamid d. Selencyanessigsäure. Sm. 188° u. Zers. (Ar. 241, 213 C. 1903 [2] 104). 1) Phosphoryltrithicoyanat + Anilin. Sm. 120—121° (Soc. 85, 366 C. 1904 [1] 1407). 2) Aethyl-4-Chlor-6-Brom-2-Nitronylamid d. Propionsäure. Sm. 185° (Soc. 85, 181 C. 1904 [1] 938). 3) 2-Chlor-2,6-Dibromphenylamid d. Propionsäure. Sm. 185° (Soc. 85, 182 C. 1904 [1] 938). 2) 2,4-Dichlor-6-Bromphenylamid d. Propionsäure. Sm. 165° (Soc. 85, 182 C. 1904 [1] 938). 2) 2,6-Dichlor-4-Bromphenylamid d. Propionsäure. Sm. 165° (Soc. 85, 182 C. 1904 [1] 938). 3) 2,6-Dichlor-4-Bromphenylamid d. Propionsäure. Sm. 184° (Soc. 85, 182 C. 1904 [1] 938).
C ₉ H ₇ ON ₂ BrSe C ₉ H ₇ ON ₄ S ₃ P C ₉ H ₇ O ₅ NClBr C ₉ H ₈ ONClBr ₂ C ₈ H ₈ ONCl ₂ Br	(Soc. 85, 181 C. 1904 [1] 938). 1) 3-Chlorphenylamid d. Selencyanessigsäure. Sm. 117—118° (Ar. 241, 209 C. 1903 [2] 104). 2) 4-Chlorphenylamid d. Selencyanessigsäure. Sm. 178° u. Zers. (Ar. 241, 210 C. 1903 [2] 104). 1) 3-Bromphenylamid d. Selencyanessigsäure. Sm. 105° (Ar. 241, 212 C. 1903 [2] 104). 2) 4-Bromphenylamid d. Selencyanessigsäure. Sm. 188° u. Zers. (Ar. 241, 213 C. 1903 [2] 104). 1) Phosphoryltrithicoyanat + Anilin. Sm. 120—121° (Soc. 85, 366 C. 1904 [1] 1407). 2) Aethyl-4-Chlor-6-Brom-2-N-4-2-16-2-16-2-16-2-16-2-16-2-16-2-16-2-
C ₉ H ₇ ON ₂ BrSe C ₉ H ₇ ON ₄ S ₃ P C ₉ H ₇ O ₅ NClBr C ₉ H ₈ ONClBr ₂ C ₉ H ₈ ONCl ₂ Br	(Soc. 85, 181 C. 1904 [1] 938). 1) 3 - Chlorphenylamid d. Selencyanessigsäure. Sm. 117—118° (Ar. 241, 209 C. 1903 [2] 104). 2) 4 - Chlorphenylamid d. Selencyanessigsäure. Sm. 178° u. Zers. (Ar. 241, 210 C. 1903 [2] 104). 1) 3-Bromphenylamid d. Selencyanessigsäure. Sm. 105° (Ar. 241, 212 C. 1903 [2] 104). 2) 4-Bromphenylamid d. Selencyanessigsäure. Sm. 188° u. Zers. (Ar. 241, 213 C. 1903 [2] 104). 1) Phosphoryltrithicoyanat + Anilin. Sm. 120—121° (Soc. 85, 366 C. 1904 [1] 1407). 2) Aethyl-4-Chlor-6-Brom-2-Nitronylamid d. Propionsäure. Sm. 185° (Soc. 85, 181 C. 1904 [1] 938). 3) 2-Chlor-2,6-Dibromphenylamid d. Propionsäure. Sm. 185° (Soc. 85, 182 C. 1904 [1] 938). 2) 2,4-Dichlor-6-Bromphenylamid d. Propionsäure. Sm. 165° (Soc. 85, 182 C. 1904 [1] 938). 2) 2,6-Dichlor-4-Bromphenylamid d. Propionsäure. Sm. 165° (Soc. 85, 182 C. 1904 [1] 938). 3) 2,6-Dichlor-4-Bromphenylamid d. Propionsäure. Sm. 184° (Soc. 85, 182 C. 1904 [1] 938).

180 C. 1904 [1] 938).

 $C_9H_9O_3NClBr$

6) 4-Chlor-2-Bromphenylamid d. Propionsäure. Sm. 128,5° (Soc. 85, 180 C. 1904 [1] 938).
7) 2-Chlor-6-Brom-4-Methylphenylamid d. Essigsäure. Sm. 201

2-Chlor-6-Brom-4-Methylphenylamid d. Essigsaure. Sm. 201 bis 202° (Soc. 85, 1269 C. 1904 [2] 1302).
 Aethylester d. 5-Chlor-3-Brom-2-Oxyphenylamidoameisensäure. Sm. 116—118° (Am. 32, 33 C. 1904 [2] 697).
 Aethyl-4-Chlor-6-Brom-2-Amidophenylester d. Kohlensäure. HCl (Am. 31, 501 C. 1904 [2] 95; Am. 32, 32 C. 1904 [2] 697).

- 1) Diehlorid d. 1, 2, 3, 4-Tetrahydro-1-Chinolylphosphinsäure. C9H10ONCl2P Sm. 79° (A. 326, 187 C. 1903 [1] 820). *1) α -Amido- β -Merkaptopropion-4-Bromphenyläthersäure. Sm. 192° (C. 1903 [2] 1429). C₉H₁₀O₂NBrS $C_9H_{10}O_8N_2Br_2S$ 1) Diamid d. $\alpha\beta$ -Dibrom- β -[4-Sulfophenyl] propionsäure. Sm. 208° (C. 1903 [2] 439). C,H,O,NBrS 4) α -Amido- β -[4-Bromphenyl] sulfon propions äure. Sm. 196° u. Zers. (C. 1903 [2] 1429). 2,4,5-Trimethylphenylmonamid d. Phosphorsäuredichlorid. Sm. 122° (A. 326, 240 C. 1903 [1] 868). C9H12ONCl2P 2) 2,4,6-Trimethylphenylamid d. Phosphorsäuredichlorid. Sm.155° (A. 326, 240 C. 1903 [1] 868). 1) 2-Brom-4-Methylphenylmonamid d. Phosphorsäuremonoäthyl-CoH13ONBrP ester. K (A. 326, 239 C. 1903 [1] 868). 1) Jodmethylat d. Bromtropin. Sm. 233-2340 u. Zers. (A. 326, 13 C₉H₁₇ONBrJ C. 1903 [1] 778) 2) Jodmethylat d. Brompseudotropin. Sm. 238° u. Zers. (A. 326, 19 C. 1903 [1] 778). C9H20ONSP 1) Diäthylester d. 1-Piperidylphosphinsäure. Sd. 138° (A. 326, 214 C. 1903 [1] 822). C₁₀-Gruppe. *1) Naphtalin (C. 1903 [2] 575; B. 37, 2531 C. 1904 [2] 447). *9) α -Phenyl- $\alpha\gamma$ -Butadiën. Sd. 90—92 $^{\circ}_{16}$ (B. 36, 4324 C. 1904 [1] 453; $C_{10}\mathbf{H}_8$ $C_{10}H_{10}$ B. 37, 2103 C. 1904 [2] 104). *10) Phenylcyklobutadiën. Sm. 25°; Sd. 120—122°₁₀ (B. 36, 4323 C. 1904 [1] 453). 13) Isocyklobutadiën. Sm. 100-101°; Sd. 155-165°, (B. 36, 4323 C. 1904) [1] 453). *1) δ -Phenyl- α -Buten. Sd. 182—185°₇₄₇ (B. 36, 3000 C. 1903 [2] 949; $C_{10}H_{12}$ B. 36, 4323 C. 1904 [1] 453). Sd. 188—190° (B. 36, 774 C. 1903 [1] 835; B. 37, *2) α -Phenyl- α -Buten. 2312 C. 1904 [2] 216). *3) α -Phenyl- β -Methylpropen. Sd. 181—182° (B. 37, 1722 C. 1904 [1] 1515). 1515).
 *8) 1,2,3,4-Tetrahydronaphtalin. Sd. 206° (C. r. 139, 673 C. 1904 [2] 1654).
 *12) α-[4-Methylphenyl]propen. Sd. 195—197° (B. 36, 2235 C. 1903 [2] 437).
 *14) 4-Aethylphenyläthen. Sd. 68°₁₁ (B. 36, 1633 C. 1903 [2] 25).
 16) α-Phenyl-β-Buten. Sd. 176°₇₆₅ (B. 35, 2651 C. 1902 [2] 588; B. 37, 843 C. 1904 [1] 1144; B. 37, 2310 C. 1904 [2] 216).
 17) 2,4-Dimethylphenyläthen. Sd. 79—80°₁₂ (B. 36, 1638 C. 1903 [2] 26).
 18) 2,5-Dimethylphenyläthen. Sd. 69°₁₀ (B. 36, 1639 C. 1903 [2] 26).
 *21 Isobutylbenzol (Bl. [3] 31, 966 C. 1904 [2] 1112).
 *4 tert. Butylbenzol. Sd. 168,2°₇₆₀ (Bl. [3] 31, 965 C. 1904 [2] 1112).
 *12) 1,4-Diäthylbenzol (B. 36, 1633 C. 1903 [2] 25).
 *15) 4-Aethyl-1. 3-Dimethylbenzol. Sd. 184—185°₇₆₄ (B. 36, 1638 C. 1903 $C_{10}H_{14}$ *15) 4-Aethyl-1, 3-Dimethylbenzol. Sd. 184—185°₇₅₄ (B. 36, 1638 C. 1903 [2] 26). *17) 2-Aethyl-1,4-Dimethylbenzol. Sd. 185,5°₇₅₉ (B. 36, 1640 C. 1903 [2] 27).

 *7) 1-Camphen. Sm. 40°; Sd. 159—160° (C. 1903 [1] 835; J. pr. [2] 66, 492 C. 1903 [1] 516; D.R.P. 149791 C. 1904 [1] 1042; D.R.P. 153924 C. 1904 [2] 678; D.R.P. 154107 C. 1904 [2] 965).

 *11) Carvestren (J. pr. [2] 68, 111 C. 1903 [2] 722).

 *15) Dipenten (5-Methyl-2-a-Methyläthenyl-1, 2, 3, 4-Tetrahydrobenzol) (Soc. 85, 686 C. 1004 [2] 271) $C_{10}H_{16}$

 - 668 C. 1904 [2] 331).

 *20) Fenchen (J. pr. [2] 67, 94 C. 1903 [1] 636).

 *28) Myrcen. Sd. 166—168°₇₁₄ (Soc. 83, 506 C. 1903 [1] 1028).

 *30) d-α-Phellandren (J. pr. [2] 68, 294 C. 1903 [2] 949).

 *33) Pinen. + 2 CrO₂Cl₂ (C. 1903 [2] 372; Soc. 83, 1301 C. 1904 [1] 95).
 - *30) d-4-Methyl-1-Isopropyl-1, 2-Dihydrobenzol (d- α -Phellandren). Sd. 61°₁₁ (B. 36, 1749 C. 1903 [2] 116; A. 336, 12 C. 1904 [2] 1466). *31) 1- α -Phellandren (A. 336, 12 C. 1904 [2] 1466). *49) Thujen (J. pr. [2] 67, 573 C. 1903 [2] 245).

C₁₀H₁₆ *121) Bornylen. Sm. 101-101,5°; Sd. 149-149,5° (J. pr. [2] 67, 280 C. 1903 [1] 922). *122) isom. Fenchen (aus sec. Fenchylalkohol). Sd. 159-161° (J. pr. [2] 68, 108 C. 1903 [2] 722). *124) 1-α-Thujen (B. 37, 1483 C. 1904 [1] 1349). *138) Kohlenwasserstoff (aus Kautschuköl) (B. 37, 3845 C. 1904 [2] 1613) 140) $\beta \zeta$ -Dimethyl- δ -Methylen- $\beta \varepsilon$ -Heptadiën. Sd. 55—57 $^{\circ}_{14}$ (B. 37, 3580 C. 1904 [2] 1376). 141) 6-Isopropyl-3-Methyl-1, 2-Dihydrobenzol (p-Menthadiën). Sd. 174 bis 176°₇₆₆ (A. 328, 323 C. 1903 [2] 1062). 142) 3-Isopropyl-1-Methyl-P-Dihydrobenzol. Sd. 172-1740 (A. 328, 117 C. 1903 [2] 245). 143) β -[1-Methyl-1,2,3,4-Tetrahydrophenyl-4-]propen? Sd. 75-80% (B. 36, 489 *C.* **1903** [1] 637). 144) 2-Aethenyl-1,1,5-Trimethyl-2,3-Dihydro-R-Penten. (C. r. 136, 1462 C. 1903 [2] 287). 145) β -Phellandren. Sd. 57 $^{0}_{11}$ (G. 16, 225; A. 336, 42 C. 1904 [2] 1468). — III, 529. 146) Tricyklodekan (Tetrahydrodicyklopentadiën). Sm. 77°; Sd. 193°₇₆₉ (C. **1903** [2] 989). 147) isom. Tricyklodekan. Sm. 9°; Sd. 191,5°,00 (C. 1903 [2] 989). 148) Cyklen. Sm. 67,5—67,8°; Sd. 152,8—153°,757,6 (J. r. 29, 121; B. 37, 1035 C. 1904 [1] 1263). 149) synth. Paraterpen. Sd. 174° (B. 25, 2122; 26, 232; 27, 453). — *III, 401. 150) 1- β -Thujen. Sd. 150 -151°_{750} (B. 34, 2279; B. 37, 1482 C. 1904 [1] 1349). 151) Tricylen. Sm. 65 -66° ; Sd. 153° (C. 1897 [1] 1055). — *III, 402. 152) Terpen (aus Cinnamomumpedatinervium). Sd. 167—172° (Soc. 83, 1095 C. 1903 [2] 794). 153) Terpen (aus d. Oel von Amorpha Fruticosa). Sd. $150-220^{\circ}_{750}$ (C. 1904) [2] 224). 154) Kohlenwasserstoff (aus Thymianöl). Sd. 156-158° (Bl. [3] 19, 1010). -*III, 401. 155) Kohlenwasserstoff (aus Fenchylchlorid). Sd. 181—184° (J. pr. [2] 68, 109 C. 1903 [2] 722). 156) Kohlenwasserstoff (aus Guttapercha). Sd. 170° (C. 1903 [1] 83). 157) polym. Kohlenwasserstoff (aus Cincol). Sd. 200-245 122 (Ar. 242, 193 C. 1904 [1] 1350). C10H18 *5) Menthen. Sd. 168-168,5° (B. 37, 1375 C. 1904 [1] 1441). *10) Dekahydronaphtalin. Sd. 187—188° (*C. r.* 139, 674 *C.* 1904 [2] 1654). 39) 5-Methyl-2-Isopropyl-1,2,3,4-Tetrahydrobenzol (Dihydrophellandren; Dihydrolimonen). Sd. 173-174° (B. 36, 1035 C. 1903 [1] 1134; B. 36, 1753 C. 1903 [2] 117). 40) 1-Methylbicyklo-[1,3,3]-Nonan. Sd. 176-1780761 (B. 37, 1674 C. 1904 1] 1607). 41) Cineolen. Sd. 165-167° (Ar. 242, 185 C. 1904 [1] 1350). 42) Dihydrotanaceten. Sd. 164-166° (B. 36, 1037 C. 1903 [1] 1135). 43) Thujamenthen. Sd. 157—159° (B. 37, 1485 C. 1904 [1] 1350).

44) Kohlenwasserstoff (aus Bornyljodid oder Hydrojodpinen). Sd. 157-159°

(B. 35, 4419 C. 1903 [1] 330).

45) Kohlenwasserstoff (aus Chlorcampher). Sd. 315° (C. r. 135, 1349 C. 1903 [1] 322).

46) Kohlenwasserstoff (aus d. Glykol C₁₀H₂₂O₂). Sd. 138° (M. 24, 582 C. 1903 [2] 870).

ζ-Methyl-γ-Aethyl-γ-Hepten. Sd. 157—158 $^{0}_{750}$ (Bl. [3] 31, 753 C. 1904 [2] 303). $\mathbf{C}_{10}\mathbf{H}_{20}$

— 10 II —

C10 H6O2 C, H,O

6) Verbindung (aus Diphenacylfumarsäure) (A. 299, 60). - *II, 1191. *3) 5-Oxy-1,4-Naphtochinon. Sm. 154° (C. 1903 [2] 1109).

7) 1,3-Diketo-2-Oxymethylen-2,3-Dihydroinden + H₂O. $142^{\,0}$ (wasserfrei). NH₄, Na, Cu (*G*. **32** [2] 330 *C*. **1903** [1] 586; *G*. **33** [1] 417 *C*. **1903** [2] 950).

8) Aldehyd d. 1,2-Benzpyron-6-Carbonsäure. Sm. 187° (B. 37, 195 C. 1904 [1] 661).

11

*2) Naphtazarin. 2 + Essigsaures Kali (Soc. 83, 140 C. 1903 [1] 89, C10H6O4 *8) 1,2-Benzpyron-3-Carbonsäure. Sm. 188° (C. 1903 [1] 89). 15) 1,2-Benzpyron-6-Carbonsäure. Sm. 267-268° u. Zers. (B. 37, 196 C. 1904 [1] 661). 10) Benzfuran-1,4-Dicarbonsäure. Sm. noch nicht bei 310° (B. 37, 200 $C_{10}H_{6}O_{5}$ C. 1904 [1] 661). *5) 2,3-oder 3,4-Anhydrid d. 5-Oxy-1-Methylbenzol-2,3,4-Tricarbon- $\mathbf{C}_{10}\mathbf{H}_{6}\mathbf{O}_{6}$ säure. $+ C_2H_4O_2$ (B. 37, 3346 C. 1904 [2] 1057). 6) α , 2-Lakton d. α -Oxy- α -Phenylmethan- α , 2, 5-Tricarbonsäure (Phta-| 1.2-Diagroin (a. a-Cycle-Philymental-12, 2, 5-11cta 30 and 15 | liddicarbonsäure) (B. 36, 843 C. 1903 [1] 971). |
| 1.1-Chiornaphtalin (C. r. 135, 1122 C. 1903 [1] 283). |
| 4.1,5-Dioxynaphtalin (J. pr. [2] 69, 84 C. 1904 [1] 812). |
| 7.1,8-Dioxynaphtalin (J. pr. [2] 69, 87 C. 1904 [1] 813). |
| 8.15 | 1-Acetylbenzfuran. Sm. 75—76° (B. 36, 2864 C. 1903 [2] 832). |
| 8.15 | 1-Acetylbenzfuran. Sm. 75—76° (B. 36, 2864 C. 1903 [2] 832). |
| 8.16 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | C₁₀H₇Cl $\mathbf{C}_{10}\mathbf{H}_8\mathbf{O}_2$ *24) Methylester d. Phenylpropiolsäure. Sm. 24-26° (Bl. [3] 31, 495 C. 1904 [1] 1602). *20) Anhydrid d. α -Phenyläthan- $\alpha\beta$ -Dicarbonsäure. Sm. 53–54° (M. 24, $\mathbf{C}_{10}\mathbf{H}_8\mathbf{O}_3$ 418 C. 1903 [2] 622; Soc. 85, 1365 C. 1904 [2] 1646). 33) 6-Oxymethyl-1, 2-Benzpyron. Sm. 150° (B. 37, 194 C. 1904 [1] 34) isom. γ -Keto- α -Phenylpropen- γ -Carbonsäure + H₂O. Sm. 53-54° (57° wasserfrei) (B. 36, 2528 C. 1903 [2] 496). *11) β -[3,4-Dioxyphenyl] akryl-3,4-Methylenäthersäure. Sm. 242° $\mathbf{C}_{10}\mathbf{H}_8\mathbf{O}_4$ (*C.* **1904** [1] 880). *23) Methylester d. Phtalidcarbonsäure. Sm. 57° (A. 334, 358 C. 1904 [2] 1054). 33) 5,7-Dioxy-2-Methyl-1,4-Benzpyron. Sm. 290° (B. 37, 2100 C. 1904) 34) 7.8-Díoxy-2-Methyl-1,4-Benzpyron + $\frac{1}{2}$ H₂O. Sm. 243° (wasserfrei) (B. 36, 2192 C. 1903 [2] 384). 35) 5,7-Dioxy-4-Methyl-2,1-Benzpyron. Sm. 258° (D.R.P. 73700). — *II, 1125. 36) Isoanemonin (Ar. 230, 201). — *III, 456. 37) 4-Oxymethylbenzfuran-1-Carbonsäure. Sm. 210°. Ca (B. 37, 199 C. 1904 [1] 661). 38) Aldehyd d. 3,4,5-Trioxy-1-Aethenylbenzol-4,5-Methylenäther-2-Carbonsäure (Norcotarnon). Sm. 89°. K (B. 36, 1530 C. 1903 [2] 52). 39) Monophenylester d. Fumarsäure. Sm. 130° (B. 35, 4087 C. 1903 [1] 75). Sm. 101° (B. 35, 4089 C. 1903 40) Monophenylester d. Maleïnsäure. [1] 75). 41) polym. 1,2-Phenylenester d. Bernsteinsäure. = $(C_{10}H_8O_4)_x$. Sm. 190° (B. 35, 4075 C. 1903 [1] 73). 42) polym. 1,4-Phenylenester d. Bernsteinsäure. $=(C_{10}H_8O_4)_x$. Sm. 267. bis 269° (B. 35, 4076 C. 1903 [1] 73).

19) 2-Methylester d. Benzol-1-Carbonsäure-2-Ketocarbonsäure + H, 0. C10 H8O5 Sm. 79-81° (M. 24, 926 C. 1904 [1] 514; M. 25, 391 C. 1904 [2] 324). 15) Dianhydrid d. cis-Hexahydrobenzol-1,2,4,5-Tetracarbonsäure. C10H8N6 Sm. 60° (Suc. 83, 786 C. 1903 [2] 439).
5) 6-Oxybenzol-1,3-Dicarbonsäure-4-Methylcarbonsäure. Sm. 250 bis 255° (B. 37, 2121 C. 1904 [2] 438).

*i) 1-Merkaptonaphtalin (Bl. [3] 29, 762 C. 1903 [2] 620).

1) 1-Selenonaphtalin. Fl. (Bl. [3] 29, 763 C. 1903 [2] 620).

*i) 1-Amidonaphtalin (C. r. 138, 1038 C. 1904 [1] 1490).

*2) 2-Amidonaphtalin (C. r. 138, 1039 C. 1904 [1] 1490; B. 37, 2616 C10H8O $\mathbf{C}_{10}\mathbf{H}_{8}\mathbf{S}$ $\mathbf{C}_{10}\mathbf{H}_8\mathbf{Se}$ $\mathbf{C}_{10}^{\mathbf{H}_{9}}\mathbf{N}$ *8) 6-Methylchinolin. Sd. 258° (C. 1904 [2] 543). 4) α-Chlor-α-Phenyl-αβ-Butadiën. Sd. 232—234° (B. 36, 775 C. 1903 C10H9Cl *4) 2-Keto-1,2,3,4-Tetrahydronaphtalin (B. 36, 710 C. 1903 [1] 818). *5) 1-Keto-2-Methyl-2,3-Dihydroinden. Fl. (Soc. 83, 915 C. 1903 1] 835). C10H10 [2] 504). *14) Benzylidenaceton. + H₈PO₄ (C. 1903 [2] 284).

RICHTER, Lex. d. Kohlenstoffverb. Suppl. III.

31) 2-Keto-1-Methyl-2, 3-Dihydroinden. Sm. 62-63° (A. 336, 6 C. 1904) $C_{10}H_{10}O$ 32) Aldehyd d. β-[4-Methylphenyl]akrylsäure. Sm. 41,5°; Sd. 154 bis 159°₂₅ (B. 36, 850 C. 1903 [1] 975). *2) Isosafrol. Sd. 246-248°. Pikrat (C. 1904 [2] 954, 1568). $C_{10}H_{10}O_{2}$ *8) Benzoylaceton (B. 36, 1837 C. 1903 [2] 192 *12) α -Phenylpropen- α -Carbonsäure. Sm. 136 $^{\circ}$ (B. 36, 2254 U. 1903 [2] 437). *25) Lakton d. γ-Oxy-γ-Phenylbuttersäure. Sm. 37°; Sd. 123° (C. 1904 [1] 1259). *26) Dimethylphtalid. Sm. 67-68°; Sd. 274-275° (B. 37, 736 C. 1904) [1] 1078). 40) Methylenäther d. β -[3,4-Dioxyphenyl]propen. Sd. 238—239° (C. r. 139, 140 C. 1904 [2] 593). 41) γ-Keto-α-[4-Oxyphenyl]-α-Buten (4-Oxybenzalaceton). Sm. 102—1030 (B. 36, 134 C. 1903 [1] 458). 42) 1-[α-Oxyäthyl]benzfuran. Sm. 37°; Sd. 145°, (B. 36, 2869 C. 1903 [2] 833). 43) β-Phenylpropen-α-Carbonsäure. Sm. 97—98,8°; Sd. 166—168°₁₁
(B. 37, 1092 C. 1904 [1] 1262; C. r. 138, 986 C. 1904 [1] 1439).
44) isom. β-Phenylpropen-α-Carbonsäure. Sm. 129°; Sd. 170—172°₁₄ (C. r. 138, 986 C. 1904 [1] 1439). 45) trans-1-Phenyl-R-Trimethylen-2-Carbonsäure. Sm. 1050. Ca + $2 \, \mathrm{H_2O}$, Ag (B. 36, 3784 C. 1904 [1] 42). 40) Aldehyd d. β -[4-Methoxylphenyl|akrylsäure. Sm. 58°; Sd. 178 bis 176°₁₄ (B. 36, 853 C. 1903 [1] 976). *3) Methylenäther d. Aethyl-3,4-Dioxyphenylketon. Sm. 39° (C. 1904 $C_{10}H_{10}O_{8}$ [2] 1568). *9) γ -Oxy- α -Phenylpropen- γ -Carbonsäure. Sm. 135° (B. 36, 2529 C. 1903 [2] 496). *23) β -Benzoylpropionsäure. Sm. 116°. Ca (M. 24, 81 C. 1903 [1] 769). *34) Lakton d. I-Dioxymethylbenzoläthyläther-2-Carbonsäure. Sm. 64°: Sd. $255-260^{\circ}$ (*M*. **25**, 498 *C*. 1904 [2] 325). 56) Methylenäther d. β -Keto- α -[3,4-Dioxyphenyl]propan. Sd. 156° (4. 332, 332 *C*. 1904 [2] 652). 57) β -Oxy- β -Phenylakrylmethyläthersäure. Sm. 180° u. Zers. (C. r. 137, 261 C. 1903 [2] 664; C. r. 138, 287 C. 1904 [1] 719). 58) 1-Aethylbenzol-4-Ketocarbonsäure. Sm. 70-71° (C. r. 136, 558 C. 1903 [1] 832). 59) Dialdehyd d. 3-Oxy-1,4-Dimethylbenzol-2,6-Dicarbonsäure. Sm. 154° (B. 35, 4108 C. 1903 [1] 150). 60) Aethylester d. Benzol-1-Carbonsäure-2-Carbonsäurealdehyd. Sd. 240—243° u. Zers. (M. 25, 497 C. 1904 [2] 325). 61) Carbonat d. 3,4-Dioxy-1-Propylbenzol. Sd. 139-141° 18 (U. r. 138, 425 *C.* **1904** [1] 798). 62) Carbonat d. 3,4-Dioxy-1-Isopropylbenzol. Sm. 41°; Sd. 135—137°13 (C. r. 138, 1703 C. 1904 [2] 436).
63) Verbindung (aus Isosafrol). Sd. 142% (B. 36, 3580 C. 1903 [2] 1363). C10H10O4 *9) β - [3, 4 - Dioxyphenyl] propionmethylenäthersäure. Sm. 84—85° (C. 1904 [1] 879). *18) α -Phenyläthan- $\alpha\beta$ -Dicarbonsäure. Sm. 167°. K + H₂O, Ag₂ (M. 24, 417 C. 1903 [2] 622; B. 37, 4069 C. 1904 [2] 1651; Soc. 85, 1365 C. 1904 [2] 1646). *39) αγ-Lakton d. αβγ-Trioxy-γ-Phenylbuttersäure. Sm. 116—117° (B. 37, 3127 C. 1904 [2] 1042). *40) Mekonin (Ar. 241, 261 C. 1903 [2] 447). *53) Dimethylester d. Benzol-1,4-Dicarbonsäure (B. 37, 2002 C. 1904 [2] 225). *67) $ar{eta}ar{eta}$ -Dioxy- $lpha\gamma$ -Diketo-lpha-Phenylbutan. Ba $_2$ (B. 36, 3226 C. 1903 [2] 75) 4, 6-Dioxy-1, 3-Diacetylbenzol (C. 1904 [1] 1597). 76) Dimethyläther d. 5,6-Dioxy-2-Keto-1,2-Dihydrobenzfuran. Sm.

122° (Soc. 83, 137 C. 1903 [1] 90, 466).

- $C_{10}H_{10}O_4$ 77) 5-Oxy-1-Methylbenzolmethyläther - 2 - Ketocarbonsäure + H₀O₁ Sm. 85° (C. 1904 [1] 1597). 78) 3-Oxy-1-Methylbenzolmethyläther-4-Ketocarbonsäure + H_2 0. Sm. 101° (C. 1904 [1] 1597). 79) 6-Acetoxyl-1-Methylbenzol-2-Carbonsäure. Sm. 144,5° (D.R.P. 91 201). — *II, 918. 80) Aldehyd d. 3-Acetoxyl-4-Oxybenzol-4-Methyläther-1-Carbonsäure. Sm. 64° (B. 35, 4397 C. 1903 [1] 340). 1-Methylester d. Benzol-1-Carbonsäure-2-Methylearbonsäure.
 Sm. 143—145° (M. 24, 944 C. 1904 [1] 516). 82) 2-Methylester d. Benzol-1-Carbonsäure-2-Methylcarbonsäure. Sm. 96—98° (M. 24, 939 C. 1904 [1] 515).
 83) Monophenylester d. Bernsteinsäure. Sm. 98° (B. 35, 4076 C. 1903) [1] 73). $C_{10}H_{10}O_5$ *5) 3,4-Dioxybenzoldimethyläther-1-Ketocarbonsäure. Sm. 138—139° (wasserfrei). K, Pb, Cu + 5H₂O, Ag (C. 1904 [1] 511). *19) 4-Oxybenzoläthyläther-1, 2-Dicarbonsäure. Sm. 163° *20) 2-Oxybenzoläthyläther-1,4-Dicarbonsäure. Sm. 254° (C. 1904 [1] 1597). 44) Isoanemonsäure (Ar. 230, 193). — *III, 456. 45) β -Ketopropylester d. 3, 5 - Dioxybenzol - 1 - Carbonsäure + H_2O . Sm. 97° (D.R. P. 73700). — *II, 1030. 46) Verbindung (aus βγδ-Triketopentan). Sm. 119° (B. 36, 3230 C. 1903 [2] 941). *3) Dillölapiolsäure (Ar. 242, 341 C. 1904 [2] 525). $C_{10}H_{10}O_{6}$ 32) 6-Oxy-3-Methylphenyltartronsäure. K₂ (D.R.P. 115817 C. 1901 [1] 72). — *II, 1165. 4) Pyrogalloldiglykolsäure (D.R.P. 155568 C. 1904 [2] 1443) $C_{10}H_{10}O_7$ 5) 3,4-Dioxyphenyltartron-3-Methyläthersäure. K₂ (D.R.P. 115817 C. 1901 [1] 72). — *II, 1194. *6) 1,5-Diamidonaphtalin. Sm. 189—190° (C. 1904 [1] 461; J. pr. [2] $C_{10}H_{10}N_2$ 69, 84 C.,1904 [1] 812).

 *9) 1,8-Diamidonaphtalin. Sm. 66-67° (C. 1904 [1] 461).

 *12) 2,7-Diamidonaphtalin (J. pr. [2] 69, 89 (f. 1904 [1] 813).

 *15) 3-Methyl-1-Phenylpyrazol. Sm. 35° (B. 36, 3988 C. 1904 [1] 171).

 *19) 3-Metyyl-5-Phenylpyrazol. Sm. 127-127,5° (C. r. 136, 1264 C. 1903 [2] 122). *27) I-Methyl-2-[8-Pyridyl]pyrrol (Nikotyrin). Sd. 276° (272-(C. r. 137, 861 C. 1904 [1] 104; B. 37, 1226 C. 1904 [1] 1278). Sd. 276° (272-274°) Sm. 67-68° (B. 36, 6) 1-Benzylidenamido-5-Methyl-1, 2, 3-Triazol. C10H10N4 3617 C. 1903 [2] 1381). 7) Nitril d. 1,4-Phenylendi[Amidoessigsäure]. Sm. 170-1710 (D.R.P. 145 062 C. 1903 [2] 1036). 2) αδ-Dibrom-α-Phenyl-β-Buten. Sm. 94° (B. 36, 1404 C. 1903 [1] 1347;
 B. 36, 4325 C. 1904 [1] 453).
 *3) 2, 3, 5, 6-Tetrabrom-1, 4-Diäthylbenzol. Sm. 112° (B. 36, 1633) $C_{10}H_{10}Br_{2}$ $C_{10}H_{10}Br_4$ C. 1903 [2] 25).
- *6) αβγδ-Tetrabrom-α-Phenylbutan. Sm. 151° (B. 36, 1406 C. 1903 [1]
 - 1348; B. 36, 4325 C. 1904 [1] 453).
 7 isom. αβγδ-Tetrabrom-α-Phenylbutan. Sm. 76° (B. 36, 1406 C. 1903 [1] 1348).
 *21) Nitril d. 1,3,5-Trimethylbenzol-2-Carbonsäure. Sm. 53° (B. 36,
- C,0H,1N 331 *C.* **1903** [1] 576).
- *7) 5-Imido-3-Methyl-1-Phenyl-4,5-Dihydropyrazol. Sm. 116° (B. 36, C,0H,1N, 3271 C. 1903 [2] 1188; B. 36, 3279 C. 1903 [2] 1189).
 - Pikrat (G. 32 [2] 464 17) 2-Phenylazo-I-Methylpyrrol. Sd. 140°₂₁. C. 1903 [1] 839).
 3) P-Chlor-1,2,3,4-Tetrahydronaphtalin. Sd. 230° u. Zers. (C. r. 139,
- C10H11Cl 673 C. 1904 [2] 1654).
- 3) γ -Brom- β -Phenyl- β -Buten. Sd. 114—116°₁₈ (B. 37, 233 C. 1904 [1] 660). 4) 5-Brom-1, 2, 3, 4-Tetrahydronaphtalin. Sd. 255—257° (Soc. 85, 729) $C_{10}H_{11}Br$ C. 1904 [2] 116, 338).

5) 6-Brom-1, 2, 3, 4-Tetrahydronaphtalin. Sd. 238—2390₇₅₈ (Soc. 85, 729 $C_{10}H_{11}Br$ *O.* **1904** [2] 116, 338).

6) P-Brom-1, 2, 3, 4-Tetrahydronaphtalin. Sd. 250° u. Zers. (C. r. 139, 673 C. 1904 [2] 1654).

C10H1Br

 $C_{10}H_{12}O_2$

- 8) 2, 5, 6-Tribrom-4-Aethyl-1, 3-Dimethylbenzol. Sm. 135° (B. 36, 1639) C. 1903 [2] 26).
- 9) 3,4,5-Tribrom-2-Aethyl-1,4-Dimethylbenzol. Sm. 89° (B. 36, 1640 C. 1903 [2] 27).

1) β -[4-Jodphenyl]- β -Buten. Sm. 45-46°; Sd. 155°₂₈ (B. 35, 2642) $C_{10}H_{11}J$ *C.* 1902 [2] 586).

*6) Methyläther d. 4-Oxy-1-Allylbenzol. Sd. $108-114_{25}^{0}$ (215-216°) C10H19O (D. R. P. 154654 C. 1904 [2] 1355; C. r. 139, 482 C. 1904 [2] 1038).

*7) Methyläther d. 2-Oxy-I-Propenylbenzol. Sd. 2220 (B. 36, 1188 C. 1903 [1] 1179).

*15) Aethyläther d. β -Oxy- α -Phenyläthen. Sd. 225—226° (C. r. 138, 288 C. 1904 [1] 720; Bl. [3] 31, 527 C. 1904 [1] 1552). *27) Methyl-2,4-Dimethylphenylketon. + H₂SO₄ (R. 21, 355 C. 1903

11 151).

*30) 2-Methyl-3, 4-Dihydro-1, 2-Benzpyran. Sm. 2230 (B. 36, 2872) C. 1903 [2] 833).

*32) Aldehyd d. α-[4-Methylphenyl]äthan-α-Carbonsäure. Sd. 219—221° $(C. r. 137, 1261 \ C. 1904 [1] 445).$

*37) Aldehyd d. 1,3,5-Trimethylbenzol-2-Carbonsaure (Soc. 85, 219) C. 1904 [1] 656, 939).

*41) Aethyläther d. α-Oxy-α-Phenyläthen. Sd. 209—210° (C. r. 138, 287 C. 1904 [1] 719; Bl. [3] 31, 525 C. 1904 [1] 1552).
*43) Methyläther d. β-[4-Oxyphenyl] propen. Sm. 32°; Sd. 222° (C. r. 139,

140 C. 1904 [2] 593; B. 37, 3995 C. 1904 [2] 1640).

49) Methyläther d. β -[2-Oxyphenyl]propen (o-Pseudoanisol). Sd. 198-199° (*C. r.* 139, 140 *C.* 1904 [2] 593). 50) Methyläther d. β -[3-Oxyphenyl]propen. Sd. 215—216° (*C. r.* 139,

140 C. 1904 [2] 593).

51) Aethyläther d. 4-Oxyphenyläthen. Sd. 108-110°, (B. 36, 3594) C. 1903 [2] 1366).

52) 4, 6-Dimethyl-1, 2-Dihydrobenzfuran. Fl. (B. 36, 2877 C. 1903 [2] 834).

*3) Eugenol (*J. pr.* [2] 68, 237 *C.* 1903 [2] 1063). *20) Aethyläther d. Methyl-4-Oxyphenylketon. Sd. 158--161°₁₅ (*B.* 36, 3593 *C.* 1903 [2] 1366).

*28) γ -Phenylbuttersäure. Sm. 47—48° (C. r. 138, 104) C. 1904 [1] 1493). *29) i- α -Phenylpropan- β -Carbonsäure. Sm. 37°; Sd. 160—161°₁₇. Ag (Soc. 83, 915 C. 1903 [2] 504; Soc. 83, 1006 C. 1903 [2] 663). *30) α -[4-Methylphenyl°propionsäure (B. 36, 769 C. 1903 [1] 836). *46) 1,2,4-Trimethylbenzol-5-Carbonsäure. + H₂SO₄ (R. 21, 352 C. 1903 [1] 150°.

[1] 150).

*48) 1,3,5-Trimethylbenzol-2-Carbonsäure. Salze siehe (Soc. 85, 240 C. 1904 [1] 1006).

*55) Aethylester d. Phenylessigsäure (B. 36, 3088 C. 1903 [2] 1004). *73) Aethyl-6-Oxy-3-Methylphenylketon. Sm. -2° ; Sd. $135-140^{\circ}_{22}$ (B.

36, 3892 C. 1904 [1] 93).

*84) Methyläther d. Aethyl-2-Oxyphenylketon. Sd. 137° 16 (B. 36, 2585) C. 1903 [2] 621). *87) d-α-Phenylpropan-β-Carbonsäure. Fl. Chininsalz (Soc. 83, 1007 C.

1903 [2] 663). 92) 3-Methyläther d. β -[3,4-Dioxyphenyl] propen. Sd. 257 258° (C.r.139, 140 C. 1904 [2] 593).

93) Methyläther d. β -Keto- α -[4-Oxyphenyl]propan. Sd. 141° (i. V.) (A. 332, 323 C. 1904 [2] 651).

94) Methyläther d. Methyl-4-Oxy-2-Methylphenylketon. Sm. 12°; Sd.

 268_{760}° (C. 1904 [1] 1597). 95) Methyläther d. Methyl-2-Oxy-4-Methylphenylketon. Sin. 37,2"; Sd. 265°₇₅₄ (C. **1904** [1] 1597).

96) Aethyläther d. Oxymethylphenylketon. Sd. $134-136^{\circ}_{21}$ (C. r. 138, 91 C. 1904 [1] 505).

- C10H12O2 97) 1-[α-Oxyäthyl]-1,2-Dihydrobenzfuran. Sd. 142°₁₅ (B. 36, 2870 C. **1903** [2] 833).
 - 98) Rheosmin. Sm. 79,5° (C. 1903 [1] 883; C. r. 136, 386 C. 1903 [1] 722). 99) Aldehyd d. 6-Oxy-1-Methylbenzoläthyläther-2-Carbonsäure. Sd.
 - 258—260° (B. 31, 1151). *III, 65. 100) Acetat d. 4-Oxymethyl-1-Methylbenzol. Sd. 227° (B. 37, 1466
- C. 1904 [1] 1342). *11) 3-Oxy-5-Isopropyl-2-Methyl-1,4-Benzochinon. Sm. 170° (A. 336, C,0H,2O, 29 C. 1904 [2] 1467).
 - *13) Methyläther d. 5-Oxy-2-Propyl-1,4-Benzochinon. Sm. 1110 (B. 36, 859 C. 1903 [1] 1084; Ar. 242, 99 C. 1904 [1] 1008).
 - *51) 3-Oxy-1-Methylbenzoläthyläther-4-Carbonsäure. Śm. 78,5° (C. 1904) [1] 1597).
 - *66) Aethylester d. α-Oxyphenylessigsäure (C. 1903 [2] 199).
 - *94) 5-Oxy-1-Methylbenzoläthyläther-2-Carbonsäure. Sm. 146° (C. 1904) [1] 1597).
 - 104) 3,4-Methylenäther d. 3,4-Dioxy-1- $[\alpha$ -Oxypropyl]benzol. Sd. 172
 - bis 175° (C. 1904 [2] 1568). 105) 4,5-Methylenäther d. 2,4,5-Trioxy-l-Propylbenzol. Sm. 71—72° (Ar. 242, 90 C. 1904 [1] 1007).
 - 106) α-Oxyisopropyl-4-Oxyphenylketon. Sm. 97-98° (D.R.P. 80986). *III, 120.
 - 107) Methyläther d. 6-Oxy-2-Propyl-1,4-Benzochinon. Sm. 79° (B. 36, 1719 C. 1903 [2] 114; Ar. 242, 347 C. 1904 [2] 525).
 - 108) Dimethyläther d. Methyl-2, 5-Dioxyphenylketon. Sd. 156-1580, (B. 37, 3996 C. 1904 [2] 1641).
 - 109) Dimethyläther d. Methyl-3,5-Dioxyphenylketon. Sd. 290-291°
 - (B. 36, 2302 C. 1903 [2] 578). 110) α -Phenylbutan- $\beta\gamma$ -Ozonid. Sd. 80—100 $^{\circ}_{11-12}$ (B. 37, 843 C. 1904 [1]
 - 111) 1-α-Oxy-α-Phenylbuttersäure. Zn, Ag (Soc. 85, 1258 C. 1904 [2] 1304).
 - 112) Aldehyd d. 4,5-Dioxy-1-Methylbenzol-4-Aethyläther-1-Carbonsäure. Sm. 91° (D.R.P. 91170). - *III, 77.
 - 113) Aldehyd d. 3,4-Dioxybenzol-3-Propyläther-1-Carbonsäure. Sm. 82°
- (D.R. P. 85196). *III, 74. *4) 3,4-Dimethyläther d. Methyl-2,3,4-Trioxyphenylketon. $C_{10}H_{12}O_4$
 - bis 79° (B. 36, 127 C. 1903 [1] 468; Soc. 83, 132 C. 1903 [1] 89, 466). *30) Rhizoninsäure (J. pr. [2] 68, 16 C. 1903 [2] 511). *39) Methylester d. 3,5-Dioxybenzoldimethyläther-1-Carbonsäure.
 - Sm. 41° (81°?) (B. 35, 3902 C. 1903 [1] 27).

 *43) Dimethylester d. cis-1,4-Dihydrobenzol-1,4-Dicarbonsäure (B. 36,
 - 2857 C. 1903 [2] 1129).
 - *54) α -Benzoat d. $\alpha\beta\gamma$ -Trioxypropan. Sm. 36°; Sd. 124° (B. 36, 1573) C. 1903 [2] 225; B. 36, 4341 C. 1904 [1] 433).
 - 66) 3,4-Methylenäther d. 3,4-Dioxy-1-[αβ-Dioxypropyl]benzol. Sm. 101 bis 102° (B. 24, 3490; B. 36, 3580 C. 1903 [2] 1363).
 - 67) Propyl 2, 3, 4 Trioxyphenylketon + xH₂O. wasserfrei) (D.R.P. 49149, 50451). *III, 119. Sm. 76—80° (100°
 - 68) 3,6-Dioxy-2,5-Diathyl-1,4-Benzochinon. Sm. 217—218° (B. 37, 2385 C. 1904 [2] 307).
 - 69) 3,5-Dioxy-1-Methylbenzoldimethyläther-2-Carbonsäure. Zers. bei 178° (M. 24, 897 C. 1904 [1] 512).
 - 70) 3,5-Dioxy-1-Methylbenzoldimethyläther-4-Carbonsäure. Sm. 140° u. Zers. (M. 24, 901 C. 1904 [1] 513).
 - 71) 4-Oxy-1-Oxymethylbenzol-1-Aethyläther-3-Carbonsäure. Sm. 74° (D.R.P. 113512 C. 1900 [2] 796). — *II, 1032.
 - 72) 2-Methyl-R-Penten-5-Carbonsäure-4-[Aethyl- β -Carbonsäure].
 - Sm. 218°. Ba (B. 36, 947 C. 1903 [1] 1021). 73) Aldehyd d. 2,4,6-Trioxybenzoltrimethyläther-1-Carbonsäure. Sm. 118° (M. 24, 863, 866 C. 1904 [1] 367).
 - 74) Methylester d. 3, 5 Dioxy 1, 4 Dimethylbenzol 2 Carbonsäure (Atrarsaure; Physcianin; Ceratophyllin). Sm. 143° (G. 12, 257; A. 119, 365; 284, 189; 288, 48; 295, 225; B. 30, 359, 1985; J. pr. [2] 57, 287). — II, 2083; III, 642; *II, 1036.

 $C_{10}H_{13}N$

75) Methylester d. 3,5-Dioxy-l-Methylbenzol-P-Methyläther-2-Carbon- $C_{10}H_{12}O_4$ saure. Sm. 95-97° (M. 24, 896 C. 1904 [1] 512). 76) Methylester d. 3, 5-Dioxy-1-Methylbenzol-3-Methyläther-4-Carbonsäure. Sm. 63-65° (M. 24, 899 C. 1904 [1] 512). 77) Methylester d. 2,4-Dioxybenzoldimethyläther-1-Carbonsäure. Sd. 294-296° (C. 1903 [1] 580; Soc. 85, 159 C. 1904 [1] 724; M. 24, 889 C. 1904 [1] 512). 78) Aethoxylmethylester d. 2-Oxybenzol-1-Carbonsäure. Sd. 168 bis 169₄₃ (D. R. P. 137585 C. 1903 [1] 112). 79) 2-Oxybenzoat d. αα-Dioxyäthan-α-Methyläther (Methoxyäthylidensalicylat). Fl. (D.R.P. 146849 C. 1903 [2] 1353). *9) 3, 4,5 - Trioxybenzoltrimethyläther-1-Carbonsäure. Sm. 167-169 " $C_{10}H_{12}O_5$ (M. 25, 511 C. 1904 [2] 1118). *16) Lakton d. β - Diacetylbernsteinsäuremonoäthylester. Sm. 110° (B. 37, 3491 α 1904 [2] 1289). *17) Methylester d. 3,4,5-Trioxybenzol-3,5-Dimethyläther-1-Carbonsäure + H₂O. Sm. 83-84° (106° wasserfrei) (B. 36, 217 C. 1903 [1] 455). *29) Aethylester d. 5-Oxy-1,4-Pyronäthyläther-2-Carbonsäure (G. 33) [2] 264 *C*. **1904** [1] 44). *31) 2,4,6-Trioxybenzoltrimethyläther-1-Carbonsäure. Sm. 142-1440 u. Zers. (M. 24, 873 C. 1904 [1] 368). 37) α -Oxy- α -[3,4-Dioxyphenyl] essig-3,4-Dimethyläthersäure. Sm. 105°. K, Ba, Pb, Cu, Ag (C. 1904 [1] 511).

38) Methylester d. 2,3,4-Trioxybenzol-3,4-Dimethyläther-1-Carbonsäure. Sm. 75-78° (B. 36, 660 C. 1903 [1] 710; M. 25, 509, 511 C. 1904 [2] 1118). 39) Methylester d. 3,4,5-Trioxybenzol-3,4-Dimethyläther-1-Carbonsäure. Sm. 84° (81-83°) (B. 36, 217 C. 1903 [1] 455; B. 36, 660 C. 1903 [1] 710; M. 25, 519 C. 1904 [2] 1118). C10H12O8 9) cis-Hexahydrobenzol-1, 2, 4, 5-Tetracarbonsäure. Sm. 138—140° (Soc. 83, 786 C. 1903 [2] 201, 439). 10) trans-Hexahydrobenzol-1, 2, 4, 5-Tetracarbonsäure. Sm. 175° (Soc. 83, 784 C. 1903 [2] 201, 439 *18) 1-Methyl-2-[3-Pyridyl]-2,3-Dihydropyrrol (Dihydronikotyrin). $C_{10}H_{12}N_2$ 248° (C. r. 137, 861 C. 1904 [1] 104). 35) Nitril d. α-[Methylphenylamido] propionsäure. Sm. 212° (B. 36, 758 C. 1903 [1] 962).

36) Nitril d. Aethylphenylamidoessigsäure. Nitril d. Aethylphenylamidoessigsäure. Sm. 24° (21°); Sd. 183°_{20} (D.R.P. 142559 C. 1903 [2] 81; B. 37, 4083 C. 1904 [2] 1723). 37) Nitril d. 2,4-Dimethylphenylamidoessigsäure. Sm. 50-52° (B. 37, 4082 C. 1904 [2] 1723).

*4) \$\alpha \beta\$-Dibrombutylbenzol. Sm. 70—71° (B. 36, 774 C. 1903 [1] 835). $\mathbf{C}_{10}\mathbf{H}_{12}\mathbf{Br}_{2}$ *14) 4,6-Dibrom-1,2,3,5-Tetramethylbenzol. Sm. 1990 (B. 37, 1717 Ú. 1904 [1] 1489). *17) \(\beta \gamma\)-Dibrombutylbenzol. Fl. (B. 37, 2311 C. 1904 [2] 216)

20) 4-[αβ-Dibromäthyl]-1-Aethylbenzol. Sm. 66° (B. 36, 1633 C. 1903 21) 2-[$\alpha\beta$ -Dibromäthyl]-1,4-Dimethylbenzol. Sm. 55° (B. 36, 1639 C.

1903 [2] 27). *13) 1-Methyl-1, 2, 3, 4-Tetrahydrochinolin. Sd. 245,5—247°, 24. HJ, Pikrat (B. 36, 2569 C. 1903 [2] 727; B. 36, 3799 C. 1904 [1] 210.

 γ -Amido-α-Phenyl-α-Buten. Sd. 119 0 ₁₂. Oxalat (B. 36, 3002 C. 1903 [2] 949).

35) γ-Amido-α-Phenyl-β-Methylpropen. Sd. 230°. (2HCl, PtCl₄) (C. 1904) [1] 1496).

36) γ -[2-Methylphenyl]amidopropen (Allyl-2-Methylphenylamin). Sd. 225 bis 230° (B. 37, 3896 C. 1904 [2] 1612).

37) γ -[4-Methylphenyl]amidopropen (Állyl-4-Methylphenylamin). Sd. 232—234°. HCl, Oxalat (B. 37, 2720 C. 1904 [2] 592).

38) d-1-Amido-2-Methyl-2,3-Dihydroinden. d-Bromcamphersulfonat, d-Chlorcamphersulfonat, Ditartrat (Soc. 83, 931 C. 1903 [2] 505; Soc. 85, 171 *C.* 1904 [1] 380, 809).

167 — 39) 1-1-Amido-2-Methyl-2, 3-Dihydroinden. d-Bromcamphersulfonat, $C_{10}H_{13}N$ d-Chlorcamphersulfonat, Ditartrat (Soc. 83, 930 C. 1903 [2] 505; Soc. 85, 171 C. 1904 [1] 380, 809). 40) d-1-1-Amido-2-Methyl-2,3-Dihydroinden. Fl. HCl, (2HCl, PtCl₄), H₂SO₄, Pikrat (C. 1901 [2] 421; Soc. 83, 916 C. 1903 [2] 505; Soc. 83, 925 C. 1903 [2] 505). 41) d-1-neo-1-Amido-2-Methyl-2, 3-Dihydroinden. Fl. HCl, H₂SO₄, Pikrat, d-Bromcamphersulfonat (Soc. 83, 916 C. 1903 [2] 505; Soc. 83, 927 C. 1903 [2] 505). 15) α -Chlor- α -Phenylbutan. Sd. 94°_{20} (B. 37, 2312 C. 1904 [2] 216). $C_{10}H_{13}C1$ 16) β -Chlor- α -Phenyl- β -Methylpropan. Fl. (B. 37, 1723 C. 1904 [1] 1515). *1) \(\alpha \to \text{Oxy} - \alpha - \text{Phenylbutan.} \) Sd. \(110^{\alpha}_{15} \) (B. \(37, 2312 \) C. \(1904 \) [2] \(216 \)). \(*6) \\ 4 - \text{Oxy} - 1 - \text{tert.} \) Butylbenzol \((A. \) \(327, 203 \) C. \(1903 \) [1] \(1407; \) Soc. \(83, \) C,0H,1O 329 *C*. **1903** [1] 875). *26) Methyläther d. 4-Oxy-1-Propylbenzol (B. 37, 3987 C. 1904 [2] 1639). *30) Methyläther d. 4-Oxy-1-Isopropylbenzol. Sd. 212-213°, 756 (B. 37, 3996 C. 1904 [2] 1640). *37) Aethyläther d. 4-Oxy-1-Aethylbenzol. Sd. 208°_{780} (B. 36, 3594 C. 1903 [2] 1366). *50) Eucarvon. Sm. 98—101°₁₇ (B. 36, 237 C. 1903 [1] 515). *58) β-Oxy-α-Phenyl-β-Methylpropan. Sm. 24°; Sd. 214—216° (C. 1904 [1] 1496; B. 37, 1723 C. 1904 [1] 1515). 74) 2- $[\beta$ -Oxyathyl]-1,4-Dimethylbenzol. Sd. 229 $^{\circ}_{759}$ (B. 36, 1639 C. 1903) [2] 26). 75) isom. γ-Oxy-α-Phenylbutan. Sd. 236—238° (B. 37, 2313 C. 1904 [2] 217). 76) Aethyläther d. 2-Methyl-1-Oxymethylbenzol. Sd. 202-2030 (D. R. P. 154 658 C. 1904 [2] 1355).
77) Umbellon. Sd. 219—220° (Soc. 85, 634 C. 1904 [1] 1607 C. 1904 [2] 333).
78) Keton (aus Pinen). Sd. 206—207°₇₇₄ (C. 1903 [2] 372; Soc. 83, 1304 C. 1904 [1] 95). *21) β -[3,5-Diketo-4-Methylhexahydrophenyl]propen. Sm. 187—188° $C_{10}H_{14}O_{2}$ (A. 330, 266 C. 1904 [1] 947). 46) $\dot{\gamma}$ -Oxy- $\dot{\alpha}$ -[2-Oxyphenyl] butan. Sm. 65°; Sd. 188—192°₁₅ (B. 36, 2871 C. **1903** [2] 833). 47) $\alpha\beta$ -Dioxy- β -[4-Methylphenyl] propan. Sm. 36° (C. r. 137, 1261 C. 1904 [1] 445). 48) 4-Methyläther d. α -Oxy- α -[4-Oxyphenyl]propan. Sd. 140—143 $^{\circ}$, a (B. 37, 4188 C. 1904 [2] 1642). 49) 3-Methyläther d. 3,5-Dioxy-1-Propylbenzol. Sd. 160-161 , (B. 36, 3449 C. 1903 [2] 1176). 50) Dimethyläther d. $\alpha\alpha$ -Dioxy- α -Phenyläthan (B. 31, 1012). — *III, 91. 51) 4-Aethyläther d. 4-Oxy-1-[α -Oxyäthyl]benzol. Sm. 48°; Sd. 140 bis 142°₁₁ (B. 36, 3593 C. 1903 [2] 1366). 52) 4-Keto-6-Oxy-5-Methyl-2-Isopropyliden-1,2,3,4-Tetrahydrobenzol. Sm. 157° (A. 330, 272 C. 1904 [1] 948). 53) Säure (aus Lorbeerblätteröl). Sm. 146—147° (Ar. 242, 167 C. 1904 [1] 1351). 54) Lakton d. δ -Oxy- $\alpha \zeta$ -Heptadiën- δ -[Aethyl- β -Carbonsäure] (Diallylbutyrolakton). Sd. 266-267° (C. 1904 [1] 1330). 55) Methylester d. β -Methyl- β ζ -Heptenin- η -Carbonsäure. Sd. 114—125 $^{0}_{23}$ (C. r. 136, 554 C. 1903 [1] 825). $C_{10}H_{14}O_3$

*13) 2,4-Diketo-6-Oxy-1,1,3,3-Tetramethyl-1,2,3,4-Tetrahydrobenzol. Sm. 190° (M. 24, 112 C. 1903 [1] 967).

39) 3-Methyläther d. 2,3,5-Trioxy-1-Propylbenzol. Sm. 107° (B. 36, 1719 C. 1903 [2] 114; Ar. 242, 347 C. 1904 [2] 525).
40) 4-Methyläther d. 2,4,5-Trioxy-1-Propylbenzol. Sm. 92° (B. 36, 36)

859 C. 1903 [1] 1084). 41) 5-Acetyl-6-Oxy-4-Keto-2,2-Dimethyl-1,2,3,4-Tetrahydrobenzol.

Sm. 36°; Sd. 127—128°₁₄. Cu (B. 37, 3380 C. 1904 [2] 1219).
42) 6-Methyläther d. 4,6-Dioxy-2-Keto-1,1,5-Trimethyl-1,2-Dihydrobenzol. Sm. 179—180° (M. 24, 110 C. 1903 [1] 967).
43) Säure (aus d. Verb. C₁₀H₁₆O₂). Sm. 197—198° (B. 37, 1034 C. 1904 [1] 1262).

C10H14O3 44) Anhydrid d. $\beta \varepsilon$ -Dimethyl- γ -Hexen- $\beta \varepsilon$ -Dicarbonsäure. Sd. 116—120 $^{\circ}_{20}$ (Soc. 83, 1385 C. 1904 [1] 434). 45) Anhydrid d. Homotanacetondicarbonsäure. Sd. 157-158 (B. 36, 4369 *C***. 1904** [1] 455). 46) Acetat d. 6-Oxy-4-Keto-2,2-Dimethyl-1,2,3,4-Tetrahydrobenzol. Sd. 144%, (B. 37, 3379 C. 1904 [2] 1219). *41) Säure (aus Citral). Sm. 192-1940 (C. 1903 [2] 1081). $C_{10}\mathbf{H}_{14}O_{4}$ 43) $\beta\beta'$ -Dioxyisopropylphenylketon + H₂0. Sm. 116° (B. 36, 1356 C. **1903** [1] 1299). 44) βε-Dimethyl-βδ-Hexadiën-γδ-Dicarbonsäure. Sm. 231° u. Zers. K₂, Ag₂ (J. pr. [2] 67, 197 C. 1903 [1] 869).
45) r-Dehydrocamphersäure. Sm. 221—223° (B. 36, 4334 C. 1904 [1] 456). 46) Säure (aus 2,3,4,5-Tetrahydro-R-Hepten-6-Carbonsäureiithylester). Sm. 231° (B. 37, 936 C. 1904 [1] 1072).
47) isom. Säure (aus 2,3,4,5-Tetrahydro-R-Hepten-6-Carbonsäureiithylester). Sm. 132° (B. 37, 936 C. 1904 [1] 1072). *12) Diäthylester d. α -Keto- β -Buten- $\alpha\gamma$ -Dicarbonsäure. Sd. 182—184 $^{o}_{23}$ $C_{10}H_{14}O_{5}$ (R. 23, 151 C. 1904 [2] 194). 19) γ -Oxy- β s-Diketo- $\gamma\delta$ -Diacetylhexan. Sm. 112° (B. 36, 3227 C. 1903 [2] 940). 25) Anemonolsäure. Sm. 151—153° (M. 20, 640). — *III, 456.
 3) Acetat d. Formalmethylenfruktosid. Fl. (R. 22, 163 C. 1903 [2] 108). $C_{10}H_{14}O_{6}$ $C_{10}H_{14}O_{7}$ *1) Hexan-ay & Tetracarbonsaure. Ag. (C. 1903 [1] 628; Soc. 85, 614 C. 1904 [1] 1553). C10 H14 O8 11) Glutarperoxyd. Sm. 108° u. Zers. (Am. 32, 65 C. 1904 [2] 766). *11) 5,8-Diamido-1,2,3,4-Tetrahydronaphtalin (Soc. 85, 754 C. 1904 C10H14N. [2] 448). *21) d-1-Methyl-2-[3-Pyridyl]tetrahydropyrrol (Nikotin). Tartrat (C. 1903 *30) Nitril d. Camphersäure (C. 1904 [1] 104; Ph. Ch. 47, 113 C. 1904 [1] 589; 8. 37, 1232 C. 1904 [1] 1278; B. 37, 2429 C. 1904 [2] 442).

*30) Nitril d. Camphersäure (C. 1903 [1] 837).

*31) i-Nikotin. Sd. 242—243°. (2HCl, PtCl₄ + H₂O) (C. r. 137, 862 C. 1904 [1] 104; B. 37, 1227 C. 1904 [1] 1278).

37) 1-Nikotin. Tartrat (C. r. 137, 862 C. 1904 [1] 104; B. 37, 1230 C. 1904 [1] 1278). C. 1904 [1] 1278). CtoH,5N *47) Nitril d. r-α-Campholensäure. Sd. 228° (C. r. 138, 696 C. 1904 [1] 1087). 61) γ-Amidobutylbenzol. Sd. 221—222°₇₅₀. HCl, H₃PO₄, Oxalat (B. 36, 2999 C. 1903 [2] 949). 62) 2-Methylamido-1,3,5-Trimethylbenzol. Sd. 228-229 0,739 (A. 327, 110 C. 1903 [1] 1213). 63) 4-Methyläthylamido-1-Methylbenzol (Methyläthyl-4-Methylphenylamin). Sd. 218—220°. Pikrat (B. 37, 2716 C. 1904 [2] 591). 64) Nitril d. 1, 1, 3 - Trimethyl-1, 2, 3, 4-Tetrahydrobenzol-5 - Carbon-säure? Sd. 220—221% (D.R.P. 14169) C. 1903 [1] 1245).

*7) d-Campher (C. 1903 [1] 1223; B. 37, 511 C. 1904 [1] 884).

*19) Dihydrocarvoxyd (Isodihydrocarvon). Sd. 199% (B. 38, 765 C. 1903 $C_{10}H_{18}O$ 1] 836). *21) d-Fenchon (C. 1904 [1] 282). *26) Myristicol (C. 1904 [1] 593). *30) 3-Keto-4-Isopropyliden-1-Methylbenzol (Pulegon) (A. 329, 108 C. 1903 [2] 1071). *56) β-Cyklocitral (D.R.P. 138141 C. 1903 [1] 267; D.R.P. 139957 C. 1903 [1] 857). *68) Aldehyd d. Camphenilansäure (Camphenol). Sm. 68-70° (U. 37, 197 C. 1903 [1] 594). *71) α-Cyklocitral. Sd. 90—95° D.R.P. 139957 C. 1903 [1] 857). 90—95°₂₀ (D.R.P. 138141 C. 1903 [1] 267; 81) Alkohol (aus Gingergrasol). Sd. 92—93% (C. 1904 [1] 1264). 82) 3-Keto-5-Isopropyl-2-Methyl-1, 2, 3, 4-Tetrahydrobenzol (Menthen-[3]-on[5]). Sd. 206—208° (B. 28, 1587; Am. 16, 395; 18, 762; A. 305, 272).—*III, 385. 83) 4-Keto-5-Isopropyl-2-Methyl-1,2,3,4-Tetrahydrobenzol(Menthenon)

(C. 1903 [2] 1373),

- $C_{10}H_{16}O$
- 84) l-4-Keto-2-Isopropyl-5-Methyl-1,2,3,4-Tetrahydrobenzol (l-Carvotanaceton). Sd. 227—229° (A. 336, 37°C. 1904 [2] 1468). 85) Camphenol. Sd. 202—204° (H. 33, 579). — *III, 397. 86) Calaminthon. Sd. 208—209°, 45 (C. r. 136, 388 C. 1903 [1] 714). 87) Keton (aus Bromumbellulon). Sd. 214—217° (Soc. 85, 643°C. 1904 [1]

- 1607; C. 1904 [2] 330).
- 88) Aldehyd d. Cyklogeraniolencarbonsäure. Sd. 101-102° (D.R.P. 141973 C. 1903 [2] 78).
- 89) Aldehyd d. isom. Cyklygeraniolencarbonsäure. Sd. 87—88%
- (D. R. P. 142139 C. 1903 [2] 78).

 90) Aldehyd d. Säure C₁₀H₁₆O₂ (aus Pinen). Sm. 32—33°; Sd. 205—207°₇₅₅
 (C. 1903 [2] 372; Soc. 83, 1302 C. 1904 [1] 95).

 91) Verbindung (aus d-Pinen u. Chloraceton). Sd. 290° (G. 33 [1] 395
- C. 1903 [2] 571).
- $C_{10}H_{16}O_{2}$

- *20) r- α -Campholensäure. Sd. 184° (*C. r.* 138, 696 *C.* 1904 [1] 1087). *27) α -Pulegensäure (*A.* 327, 125, 147 *C.* 1903 [1] 1412). *45) Isocamphenilansäure. Sm. 117—118° (*H.* 37, 198 *C.* 1903 [1] 594).
- *60) 6-Oxy-4-Keto-5-Methyl-2-Isopropyl-1, 2, 3, 4-Tetrahydrobenzol. Sd. 164,5—165° (B. 36, 3575 C. 1903 [2] 1362).
- 74) 2,3-Diketo-4-Isopropyl-1-Methylhexahydrobenzol. Sm. 80-81°; Sd. 125—127°₁₈ (C. 1904 [2] 1044)
- 75) isom. Oxyfenchon (C. 1904 [1] 282).
- 76) 5-Oxy-7-Keto-1-Methylbicyklo-[1,3,3]-Nonan. Sd. 170-1730,17-18 (B. 37, 1672 C. 1904 [1] 1606).
- 77) $\alpha \zeta$ -Heptadiën- δ -[Aethyl- β -Carbonsäure] ($\gamma \gamma$ -Diallylbuttersäure). 264—267 °. Na, Ag (C. 1904 [1] 1330).
- 78) α -Nonin- α -Carbonsäure. Sm. 6—10; Sd. 164—168 $^{\circ}_{20}$ (C. r. 136, 554) C. **1903** [1] 825).
- 79) 1,1,3-Trimethyl-1,2,3,4-Tetrahydrobenzol-2-Carbonsäure?
- 140—142°₁₅ (D.R.P. 148206 C. 1904 [1] 486). 80) 1,1,3-Trimethyl-1,2,3,4-Tetrahydrobenzol-5-Carbonsäure? 140°; Sd. 154°₁₆ (D. R.P. 141699 C. 1903 [1] 1245).
- 81) Säure (aus Pinen). Sm. 117°. Pb, Ag (C. 1903 [2] 372; Soc. 83, 1304 C. 1904 [1] 95).
- 82) Lakton d. cis-5-Oxy-1,1,3-Trimethylhexahydrobenzol-2-Carbonsäure. Sm. 57°; Sd. 122—123°, (D.R.P. 148207 C. 1904 [1] 487).
- 83) Lakton (aus Pulegensäure). Sm. 30—31°: Sd. 126—128°₁₂ (A. 327, 128 C. 1903 [1] 1412).
 84) Methylester d. ζ-Methyl-α-Heptin-α-Carbonsäure. Sd. 125—127°₃₁
- (C. r. 136, 554 C. 1903 [1] 825).
- 85) Aethylester d. ε -Methyl- α -Hexin- α -Carbonsäure. Sd. 110—112 $^{0}_{18}$
- (C. r. 136, 553 C. 1903 [1] 825). 86) Aethylester d. $\beta\delta$ -Dimethyl- $\alpha\gamma$ -Pentadiën- α -Carbonsäure. Sd. 94 $^0_{14}$ (B. 36, 16 C. 1903 [1] 387)
- 87) Aethylester d. 2,3,4,5-Tetrahydro-R-Hepten-6-Carbonsäure. Sd. 108°₁₄ (B. 37, 934 O. 1904 [1] 1072).
 88) Aethylester d. 5-Methyl-1,2,3,4-Tetrahydrobenzol-2-Carbonsäure.
- Sd. 155—157°₁₀₀ (Soc. 85, 664 C. 1904 [2] 330). 89) Isobutylester d. γ-Methyl-α-Butin-α-Carbonsäure. Sd. 99—101°₁₉ (C. r. 136, 553 C. 1903 [1] 824).
- 90) Verbindung (aus Camphen). Sm. 169-170° (B. 37, 1034 C. 1904 [1] 1262).
- $C_{10}H_{16}O_3$
- *15) Flüssige Pinonsäure (B. 37, 239 C. 1904 [1] 726).
- *32) Oxylakton (aus Pulegensäure). Sm. 129—130° (A. 327, 127 C. 1903 1] 1412).
- 58) Barringtogenin. Sm. 169-170° (C. 1903 [2] 842).
- 59) δ -Oxy- $\alpha\zeta$ -Heptadien- δ -[Aethyl- β -Carbonsäure]. Ca, Ba (C. 1904)
- 60) 5-Oxy-1,3-Dimethylhexahydrobenzol-1,5-Dicarbonsäure. 182-183° (wasserfrei) (B. 37, 4064 C. 1904 [2] 1650; B. 37, 4072 C. 1904 [2] 1652).
- 61) Oxydihydro-6-Camphylmethyläthersäure. Sm. 94°. Ag (Soc. 83, 869 C. 1903 [2] 574).

62) α-[3-Keto-4-Methylhexahydrophenyl]propionsäure (B. 36, 769 C. $C_{10}H_{16}O_{3}$ 1903 [1] 836). 63) Anhydrid d. β-Methylheptan-γζ-Dicarbonsäure. Fl. (C. 1904 [2] 1044). 64) Methylester d. 3-Keto-1-Methyl-2-Aethyl-R-Pentamethylen-2-Carbonsäure. Sd. 108-110° (C. r. 138, 210 C. 1904 [1] 663). 65) Aethylester d. 5-Keto-1,1-Dimethyl-R-Pentamethylen-2-Carbonsäure. Sd. 170-172°₁₀₀ (C. 1903 [1] 923; Soc. 85, 138 C. 1904 [1] 728). 66) Aethylester d. 3-Keto-l,2-Dimethyl-R-Pentamethylen-2-Carbon-*3) r-Camphersäure. Sm. 200—202° (B. 36, 4335 C. 1904 [1] 456).

*18) Homotanacetondicarbonsäure. Sm. 148°. Ag₂ (B. 36, 4368 C. 1904 $C_{10}H_{16}O_4$ [1] 455). *38) Diäthylester d. β -Buten- $\beta\gamma$ -Dicarbonsäure. Sd. 234—236° (B. 37, 1272 O. 1904 [1] 1334). *61) Aethylester d. $\gamma \varepsilon$ -Diketo- β -Methylhexan- δ -Carbonsäure (Ae. d. Isobutyrylacetessigsäure). Sd. 93—94°₁₈ (Bl. [3] 27, 1092 C. 1903 [1] 226). 77) ε -Methyl- α -Hepten- $\delta \eta$ -Dicarbonsäure. Sm. 104° (C. r. 138, 211 C. 1904 [1] 663). 78) ζ -Methyl- α -Hepten- $\delta\eta$ -Dicarbonsäure (γ -Methyl- α -Allyladipinsäure). Sm. 100°; Sd. 235°₂₀ (C. r. 136, 1614 C. 1903 [2] 440). 79) $\beta \varepsilon$ -Dimethyl- γ -Hexen- $\beta \varepsilon$ -Dicarbonsäure. Sm. 70°. Ag₂ (Soc. 83, 1384) C. 1904 [1] 159, 434). 80) Säure (aus βε-Dimethyl-γ-Hexen-βε-Dicarbonsäure). Sm. 60—61°. Ag₂ (Soc. 83, 1386 C. 1904 [1] 434). 81) Säure (aus d. Verb. $C_{10}H_{16}O_2$). Sm. 203° (B. 37, 1034 C. 1904 [1] 1262).82) Methylester d. γ -Butyroxyl- β -Buten- β -Carbonsäure (M. d. O-Methylbutyrylacetessigsäure). Sd. 122-130° (Bl. [3] 27, 1103 C. 1903 [1] 83) Methylester d. $\beta\delta$ -Diketo- γ -Methylheptan- γ -Carbonsäure (M. d. Methylbutyrylacetessigsäure). Sd. 122-130° (Bl. [3] 27, 1103 C. 1903 [1] 84) Diäthylester d. β -Buten- $\alpha\delta$ -Dicarbonsäure. Sd. 120—125 $^{\circ}_{17}$ (Soc. 85, 612 C. 1904 [1] 1254, 1553). 85) Diäthylester d. trans-l-Methyl-R-Trimethylen-2, 3-Dicarbonsäure. Sd. 198—200°₁₄ (J. pr. [2] 68, 160 C. 1903 [2] 759). *15) Diäthylester d. Oxyfumaräthyläthersäure. Sd. 138° 111 (Soc. 83, 417 $C_{10}H_{16}O_{5}$ C. 1903 [1] 834). 29) isom. Oxycamphersäure. Ag₂ (Am. 28, 481 C. 1903 [1] 329). 30) Dimethylester d. γ-Ketohexan-αβ-Dicarbonsäure (D. d. Butyrylbernsteinsäure). Sd. 153-154°₂₅ (Bl. [3] 27, 1093 C. 1903 [1] 226). 31) Diäthylester d. α -Oxy- α -Buten- $\beta\gamma$ -Dicarbonsäure. Sd. 150 $^{0}_{12}$ (B. 37, 1611 C. 1904 [1] 1402). 32) Diäthylester d. Butan-βγ-Dicarbonsäure-α-Carbonsäurealdehyd. Fl. (B. 37, 1612 C. 1904 [1] 1402).
22) Dioxycamphersäure. Fl. (B. 36, 4333 C. 1904 [1] 456). $C_{10}H_{18}O_{6}$ 23) Verbindung (aus Aethyloxalylchlorid). Sd. 246-248°₇₅₀ (C. r. 136, 1200 C. 1903 [2] 22). 9) Trimethylester d. β -Oxypropanmethyläther- $\alpha\beta\gamma$ -Tricarbonsäure C10H16O7 (Tr. d. Methylocitronensäure). Sd. 159-160° (A. 327, 228 C. 1903 [1] *4) 2,5-Diamido-4-Isopropyl-1-Methylbenzol. 2HCl (A. 336, 22 (... C10H16N2 1904 [2] 1467). *12) 1,4-Di[Dimethylamido] benzol. Sm. 51 ° (B. 36, 2979 C. 1903 [2] 980). 24) $\alpha\beta$ -Diathyl- α -Phenylhydrazin. Sd. 111—115 $^{0}_{12}$ (C. 1903 [1] 1128; B. 35, 4185 C. 1903 [1] 143). C10H16Cl2 7) Dichlordekahydronaphtalin. Sd. 145-148° (C. r. 139, 674 C. 1904) [2] 1654). 8) i-Dichlorid d. Kohlenw. C₁₀H₁₆ (aus Fenchylchlorid). Sm. 40-51^o (J. pr. [2] 68, 109 C. 1903 [2] 722).

*3) Pinendibromid. Sm. 167—168° (C. r. 137, 131 C. 1903 [2] 571).

7) Phellandrendibromid (B. 36, 1754 C. 1903 [2] 117).

8) Dibromid d. Terpen C₁₀H₁₆. Fl (Soc. 83, 1096 C. 1903 [2] 794). $C_{10}H_{16}Br_2$

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13) Verbindung (aus Guttapercha) oder C<sub>17</sub>H<sub>27</sub>Br<sub>7</sub>. Zers. bei 120° (C. 1903
C_{10}H_{16}Br_4
                                   [1] 83).
                           *1) Thiocampher. Sm. 119°; Sd. 228—230°<sub>761</sub> u. Zers. (B. 36, 868 C. 1903
C10 H18S
                                    [1] 972).
                           23) Nitril d. r-α-Dihydrocampholensäure. Sd. 225-228° (C. r. 136,
C,0H,7N
                          1143 C. 1903 [1] 1410).
*29) sec. Fenchylchlorid. Sm. 75°; Sd. 83—84°<sub>16</sub> (J. pr. [2] 68, 107 C.
C,0H,7Cl
                                   1903 [2] 722).
                            30) Chlordekahydronaphtalin. Sd. 112-115° (C. r. 139, 674 C. 1904
                           [2] 1654).
31) Chlorid d. d-Fenchylalkohol. Sd. 105—110°, (C.r. 126, 756). — *III, 343.
*2) Bornyljodid (l-Pinenhydrojodid) (B. 35, 4417 C. 1903 [1] 330).
6) Isobornyljodid (B. 32, 2320). — *III, 398.
7) Camphenhydrojodid. Sm. 48—55° (C. 1901 [1] 629; J. pr. [2] 68, 535; Ch. Z. 25, 132). — *III, 398.
8) isom. Camphenhydrojodid. Fl. (C. 1901 [1] 629; J. pr. [2] 68, 535).
9) i-Pinenhydrojodid (i-Bornyljodid) (B. 32, 2317). — *III, 393.
*9) Cineol (Cajeputol). Sd. 174° (G. 33 [1] 401 C. 1903 [2] 571; Ar. 242, 181 C. 1904 [1] 1350).
*22) Geraniol (J. pr. [2] 66, 498 C. 1903 [1] 516).
                                    [2] 1654).
C_{10}H_{17}J
 C10H18O
                          *22) Geraniol (J. pr. [2] 66, 498 C. 1903 [1] 516)
                          *28) 1-Linalool (J. pr. [2] 66, 493 C. 1903 [1] 516).
*32) 1-Menthon (B. 36, 273 C. 1903 [1] 440).
                          *42) i-Terpineol (5-Methyl-2-α-Oxyisopropyl-1,2,3,4 Tetrahydrobenzol). Sd.
                        *42) i-Terpineol (5-Methyl-2-α-Uxyisopropyl-1, 2, 3, 4-Tetrahydrobenzol). Sd. 134—135° (Soc. 85, 666 C. 1904 [2] 330).

*44) d-Terpineol (J. pr. [2] 66, 497 C. 1903 [1] 516).

*53) δ-Οxy-δ-Propyl-αζ-Heptadiën (C. 1903 [2] 1415).

*66) ε-Keto-βγζ-Trimethyl-γ-Hepten. Sd. 189—191° (C. 1903 [2] 656).

*70) Diisovaleraldehyd. Sd. 86°<sub>18</sub> (M. 25, 153 C. 1904 [1] 1000).

*76) i-Linalool (Soc. 83, 509 C. 1903 [1] 1029).

*81) β-[4-Oxy-4-Methylhexahydrophenyl]propen. Sd. 125—127°<sub>60</sub> (Soc. 85, 671 C. 1904 [2] 331)
                                     85, 671 C. 1904 [2] 331).
                             88) \delta-Óxy-\beta\delta\zeta-Trimethyl-\beta\acute{e}-Heptadiën. Sm. 57,5°; Sd. 43—46°<sub>0,25</sub> (B. 37,
                                     3579 C. 1904 [2] 1376).

    89) 1,1,5-Trimethyl-4-[β-Oxyäthyl]-2,3-Dihydro-R-Penten (Campholenalkohol). Sd. 215—216°<sub>700</sub> (C. r. 138, 280 C. 1904 [1] 725).
    90) Allyläther d. 1-3-Oxy-1-Methylhexahydrobenzol. Sd. 79—81°<sub>18</sub> (C. r.

                             138, 1666 C. 1904 [2] 441).
91) Apopinol. Sd. 200° (C. 1904 [1] 1263).
92) Campholenyloxyd. Sd. 180—182°,60 (C. r. 138, 281 C. 1904 [1] 725).
93) Cyklogeraniol. Sd. 95—100°, (D.R.P. 138141 C. 1903 [1] 266).
94) d-Isoborneol (J. pr. [2] 55, 34). — *III, 340.
95) 1-Isoborneol (J. pr. [2] 55, 34). — *III, 340.
                             96) isom. Isofenchylalkohol. Sm. 61,5° (J. pr. [2] 65, 229). — *III, 344.
97) Nerol. Sd. 225—227°<sub>765</sub> (J. pr. [2] 66, 501 C. 1903 [1] 517; B. 36, 265

C. 1903 [1] 585; C. 1903 [2] 877, 1081; B. 37, 1094 C. 1904 [1] 1265;

D.R.P. 150495 C. 1904 [2] 69). — *III, 350.
                               98) isom. Terpineol (Soc. 85, 1329 C. 1904 [2] 1652)
                              99) Alkohol (aus Camphenylon). Sm. 117,5—118°; Sd. 204—206° (B. 37,
                            1037 C. 1904 [1] 1263).
100) ζ-Keto-δ-Methyl-δ-Nonen. Sd. 196—200° (C. 1903 [2] 656).
101) 1-P-Menthon. Sd. 94—95°<sub>16</sub> (C. 1904 [2] 1045).
102) Keton (aus Buccoblätteröl). Sd. 208,5—209,5°<sub>760</sub> (J. pr. [2] 54, 438;
                                       [2] 63, 54). — *III, 408.
                            103) Aldehyd d. \beta\zeta-Dimethyl-\beta-Hepten-\eta-Carbonsäure (Rhodinal) (C. r. 122, 737). — *III, 350.
*3) Camphenglykol. Sm. 199—200° (B. 37, 1035 C. 1904 [1] 1262).
   C_{10}H_{18}O_2
                             *22) i-Citronellalsäure (Rhodinsäure). Sd. 146°10 (C. r. 138, 1700 C. 1904
                               [2] 440).
58) 5,7-Dioxy-1-Methylbicyklo-[1,3,3]-Nonan. Sm. 124—125° (B. 37,
                               1673 C. 1904 [1] 1607).
59) ε-Aethyläther d. δε-Dioxy-δ-Allyl-α-Penten.
(C. r. 138, 91 C. 1904 [1] 505).
                                                                                                                                                            Sd. 101—102°<sub>25</sub>
                               60) 2-Keto-1-Methyl-4-[α-Oxyisopropyl]hexahydrobenzol (8-Oxytetra-
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hydrocarvon). Fl. (B. 28, 1590; 29, 15). — *III, 353.

10 II. 172 -61) r-α-Dihydrocampholensäure. Sd. 258° (C. r. 136, 1143 C. 1903 [1] C.AH.O. 1410). 62) Säure (aus Naphta). Sd. 132—145° (C. 1903 [1] 1134). 63) Acetat d. 1-Oxy-1-Aethylhexahydrobenzol. Sd. 190°₇₈₉ (C. r. 138, 1323 C. 1904 [2] 219). C., H., O. *55) α -Keto- θ -Methyloktan- α -Carbonsäure, Sd. 124 – 125°, (Bl. [3] 31, 1153 C. 1904 [2] 1707). *58) Aethylester d. δ -Oxy- β -Hepten-s-Carbonsäure. Sd. 128—130% (C. 1903 [2] 556). *59) Aethylester d. δ -Oxy- ε -Methyl- β -Hexen- ε -Carbonsäure. Sd. 118 bis *60) Acthylester d. β -Ketoheptan- α -Carbonsäure. Sd. 116 bis 120°₁₇ (C. 1903 [2] 556). *60) Acthylester d. β -Ketoheptan- α -Carbonsäure. Sd. 116—117°₂₀ (Bl. [3] 31, 597 C. 1904 [2] 26). 65) 2-Keto-4- $[\alpha\beta$ -Dioxyisopropyl]-1-Methylhexahydrobenzol (Ketoglykol). Sm. 115—120°; Sd. 200°₁₀₀ (B. 28, 2705). — *III, 375. 66) β -Oxy- α -Oktenmethyläther- α -Carbonsäure. Sm. 55,5° (C. r. 138, 287) C. 1904 [1] 719). 67) β -Oxy- α -Heptenäthyläther- α -Carbonsäure. Sm. 74° (C. r. 138, 287) C. 1904 [1] 719). 68) α -[3-Oxy-4-Methylhexahydrophenyl]propionsäure. Ag (B. 36, 769) C. 1903 [1] 836). 69) cis-5-Oxy-1,1,3-Trimethylhexahydrobenzol-2-Carbonsäure. 141—143° (D.R.P. 148207 C. 1904 [1] 487).

70) trans-5-Oxy-1,1,3-Trimethylhexahydrobenzol-2-Carbonsäure. Sm. 151—153° (D.R.P. 148207 C. 1904 [1] 487). 71) cis-5-Oxy-1,1,3-Trimethylhexahydrobenzol-5-Carbonsäure. 113° (D.R.P. 141699 C. 1903 [1] 1245). 72) trans-5-Oxy-1,1,3-Trimethylhexahydrobenzol-5-Carbonsäure. Sm. 130° (D.R.P. 141699 C. 1903 [1] 1245). 73) Methylester d. β -Oxy- α -Heptenmethyläther- α -Carbonsäure. Sd. 232 bis 233° (C. r. 138, 208 C. 1904 [1] 659; Bl. [3] 31, 511 C. 1904 [1] 1602).
74) Verbindung (aus δ-Oxy-βδζ-Trimethyl-βε-Heptadiën). Fl. (B. 37, 3580) C. 1904 [2] 1376). *5) Sebacinsäure (C. 1903 [2] 1330). *33) Diäthylester d. Butan-αδ-Dicarbonsäure. Sd. 130₁₄ (Bl. [3] 29, C10H18O4 1044 Č. 1903 [2] 1424). 70) Oktan- $\alpha\alpha$ -Dicarbonsäure. Sm. 95° u. Zers. Ba + 3 H₀O (C. 1904) [1] 880).
 71) β-Methylheptan-γζ-Dicarbonsäure. Sm. 105-106°; Sd. 218-220° u. Zers. Cu (C. 1904 [2] 1044). 72) γ-Methylheptan-αδ-Dicarbonsäure. Sm. 110° (C. r. 138, 211 C. 1904 [1] 663). (Bl. [3] 31, 322 C. 1904 [1] 1134).
74) Isobutylester d. α-1-Propionoxylpropionsäure.

73) Aethylester d. α-Acetoxyl-β-Methylbutan-β-Carbonsäure. Sd. 113%

C10H18O5

C10 H18 O6

C10H18O8

C10H18Cl2 $\mathbf{C_{10}H_{18}Br_2}$

Sd. 97,5 - 100°, (C. 1903 [2] 1419). 75) Diacetat d. αζ-Dioxyhexan. Sm. 5°; Sd. 262°₇₈₅ (C. r. 136, 245

C. 1903 [1] 583). 22) Diäthylester d. α - Oxybutan - $\alpha\beta$ - Dicarbonsäure. Sd. 133 – 135 $^{\circ}_{12}$ (B. 37, 2382 C. 1904 [2] 306).

*4) Dipropylester d. d-Weinsäure. Sd. 171—172 17 (Soc. 85, 767 C. 1904 [2] 512).

γδ-Dioxy-βε-Dimethylhexan-βε-Dicarbonsäure. Sm. 129-130° (Sov. 83, 1386 C. 1904 [1] 159, 434).

10) Lakton d. Glykontetramethyläthersäure. Fl. (Soc. 83, 1033 C. 1903 [2] 346, 659).

5) Phaseolunatinsäure (*C.* 1903 [2] 1334).

*23) Terpendihydrochlorid (aus Kautschuk) (B. 37, 2433 C. 1904 [2] 334). *3) trans-1,4-Dibrom-4-Isopropyl-1-Methylhexahydrobenzol. Sm. 58 bis 59° (B. 37, 1483 C. 1904 [1] 1349).

*11) Dibromid (aus l-Fenchylalkohol). Sm. 49° u. 52,5° (J. pr. [2] 68, 111 C. 1903 [2] 722).

12) Dihydrobromid d. Kohlenw. C₁₀H₁₆ (aus Fenchylchlorid) (J. pr. [2] 68, 110 C. 1903 [2] 722).

1) Merkaptoborneol. Sm. 61-62°; Sd. 224-225°, ac. Pb, Hg (B. 36, C, H, S 869 C. 1903 [1] 972).

*6) Bornylamin. H₈PO₄, CHNS (Soc. 85, 1194 C. 1904 [2] 1125). C, H, N 27) sec. i-Amidodihydrocamphen. Sm. 65-130°; Sd. 194-204°. (2HCl. PtCl₄) (C. 1903 [1] 512).

8) Chlormenthan. Sd. 94—95°₁₅ (C. 1904 [1] 1348).

9) sec. 1-Menthylchlorid. Sd. 113,5—114,5° (C. 1897 [1] 1058; 1901 C10H10C1 b) sec. 1 - Menthylenierid. Sd. 113,5—114,5° (C. 1897 [1] 1058; 1901 [2] 347). — *III, 333.
*2) act. Menthylbromid. Sd. 104—106°₁₅ (J. pr. [2] 67, 193 C. 1903 [1] 713; B. 35, 4416 C. 1903 [1] 330).
5) p-4-Brommenthan. Sd. 110—111°₁₅ (C. 1904 [1] 1347).
6) isom. act. Menthylbromid. Sd. 103—105°₁₃ (J. pr. [2] 67, 194 C. 1903 [1] 713).
7) i. Menthylbromid. Sd. 200 CCC (C. 1904 [1] 1347). C, H, Br 7) i-Menthylbromid. Sd. 98—99°₁₁ (J. pr. [2] 67, 195 C. 1903 [1] 713).
3) i-Menthyljodid (J. pr. [2] 63, 63). — *III, 336.
*10) 2 Oxy-4-Isopropyl-1-Methylhexahydrobenzol (Hexahydrocaryakrol). C10H19J C10H20 Sd. 218-219° (C. r. 137, 1269 C. 1904 [1] 454). *23) δ-Oxy-δ-Propyl-α-Hepten (C. 1903 [2] 1415). *23) δ-Oxy-δ-Propyl-α-Hepten (C. 1903 [2] 1415).
47) 3-Oxy-4-Isopropyl-1-Methylhexahydrobenzol (Hexahydrothymol).
Sd. 214° (C. r. 137, 1269 C. 1904 [1] 454).
48) d-Menthol. Sm. 38,5—39° (J. pr. [2] 63, 56). — *III, 336.
49) i-Menthol. Sm. 49—51° (J. pr. [2] 55, 30). — *III, 336.
50) isom. i-Menthol. Sd. 215—216°₇₈₈ (J. pr. [2] 63, 61). — *III, 336.
51) r-Rhodinol. Sd. 110°₁₀ (C. r. 138, 1701 C. 1904 [2] 440).
52) Tetrahydroumbellulol. Sd. 207—208°₇₆₀ (Soc. 85, 644 C. 1904 [1] 1608 C. 1904 [2] 330). 53) 1-Oxy-1-Isobutylhexahydrobenzol. Sd. 102° (C. r. 138, 1322 C. 1904 [2] 219). 54) 2-Oxymethyl-1,1,2,5-Tetramethyl-R-Pentamethylen (Campholalkohol). Sm. 60°; Sd. 213° (Bl. [3] 31, 750 C. 1904 [2] 303).
 55) Alkohol (aus Hydroxylnitrosamidomenthen). Sd. 119-125°₁₉ (B. 36, 490 C. 1903 [1] 637). 56) Propyläther d. β-ΟΧΥ-α-Hepten. Sd. 181—182° (C. r. 138, 287 C. 1904 [1] 719; Bl. [3] 31, 524 C. 1904 [1] 1552).
57) βγδε-Tetramethylhexan-γδ-ΟΧΥΔ. Sd. 185—193° (C. 1903 [2] 23).
58) Aldehyd d. Nonan-β-Carbonsäure. Sd. 98—100°₂₀ (C. r. 138, 92 C. 1904 [1] 505). 59) Aldehyd d. β-Methyloktan-ε-Carbonsäure. Sd. 195—198° (C. r. 138, 92 C. 1904 [1] 505).
60) Aldehyd d. βζ-Dimethylheptan-δ-Carbonsäure. Sd. 185—186° (C. r. 138, 91 C. 1904 [1] 505; Bl. [3] 31, 306 C. 1904 [1] 1133). 61) Verbindung (aus d. Glykol C₁₀H₂₂O₂). Sd. 108—112° (M. 24, 581 C. 1903 [2] 870). 62) Verbindung (aus d. Glykol C₁₀H₂₂O₂). Sd. 171° (M. 24, 583 C. 1903 [2] 870). $C_{10}H_{20}O_2$ *12) Aldehýd d. δ -Oxy- $\beta\zeta$ -Dimethylheptan- γ -Carbonsäure. Sm. 83-84° Sd. 200° (B. 5, 481; 6, 983; 8, 369, 414; M. 25, 1038 C. 1904 [2] 1599). **--** I, 95Ò. *30) norm. Oktylester d. Essigsäure. Sd. 98015 (C. r. 136, 1677 C. 1903 [2] 419). 55) 5-Oxy-2-Oxymethyl-1,1,3-Trimethylhexahydrobenzol. bis 93°; Sd. 152° (D.R.P. 148207 C. 1904 [1] 487). 56) 2-Oxy-I,I,2-Trimethyl-3-[β-Oxyāthyl]-R-Pentamethylen (β-Campholandiol).
5m. 145° (G. r. 138, 281 G. 1904 [1] 725).
57) Glykol (aus Dihydrophellandren).
Fl. (B. 36, 1035 G. 1903 [1] 1135). *5) δ-Oxy-βζ-Dimethylheptan-γ-Carbonsäure. Sm. 81—82°; Sd. 240—244° u. Zers. Ag (M. 25, 1046 C. 1904 [2] 1599).
21) Methylester d. β-Ketooktan-α-Carbonsäure. Sd. 132,5—134°₁₉. Cu (C. r. 136, 755 C. 1903 [1] 1019). $\mathbf{C}_{10}\mathbf{H}_{20}\mathbf{O}_3$ 22) Heptylester d. 1- α -Oxypropionsäure. Sd. 115-116 $^{\circ}_{10}$ (C. 1903 [2] 1419). 14) Oxypivalinat d. $\alpha\gamma$ -Dioxy- $\beta\beta$ -Dimethylpropan. Sm. 51 $^{\circ}$; Sd. 260 $^{\circ}$ C10H20O4 (M. 25, 867 C. 1904 [2] 1106). *1) Trimethyläther d. α-Methylglykosid. Sd. 167—170°₁₇ (Soc. 83, 1028 C. 1903 [2] 346, 659; Soc. 83, 1037 C. 1903 [2] 346, 659). C10H20O6

2) α -Tetramethyläther d. Glykose. Sm. 88–89°; Sd. 182–185° $_{20}$ (Soc. 83, 1031 C. 1903 [2] 346, 659; Soc. 85, 1066 C. 1904 [2] 891). C10H20O6 3) β -Tetramethyläther d. Glykose. Sm. 88–89° (Soc. 85, 1060 C. 1904 2] 892). 4) Tetramethyläther d. Galaktose. Sd. 172° (Soc. 85, 1075 C. 1904 [2] 892). C 47.6 - H 7.9 - O 44.5 - M. G. 252.C10H20O7 1) Glykontetramethyläthersäure. Ba (Soc. 83, 1034 C. 1903 [2] 346, 659). 16) Nitril d. α-Aethylamidoheptan-α-Carbonsäure. Sd. 122°₁₂ (B. 37, $C_{10}H_{20}N_2$ 4094 C. 1904 [2] 1725). 17) Nitril d. δ -Diäthylamido- β -Methylbutan- δ -Carbonsäure. Sd. 88,5 bis 89°₁₁ (B. 37. 4089 C. 1904 [2] 1724).

*1) Dipiperidyltetrazon (G. 33 [2] 244 C. 1904 [1] 25).

2) 3,6-Diisobutyl-1,4-Dihydro-1,2,4,5-Tetrazin. Sm. 197° (J. pr. [2] $C_{10}H_{20}N_4$ 69, 483 C. 1904 [2] 537).
*14) 1-Menthylamin. HCl, d-Camphersulfonat, d-Bromcamphersulfonat (Soc. C10H21N 85, 69 C. 1904 [1] 375, 808). 28) Diäthylamidohexahydrobenzol. Sd. 1930 (C. r. 138, 1258 C. 1904 [2] 105). 29) Iso-l-Menthylamin. d-Camphersulfonat, d-Bromeamphersulfonat (Soc. 85, 74 C. 1904 [1] 375, 808). 30) neo-l-Menthylamin. d-Camphersulfonat, d-Bromcamphersulfonat (Soc. 85, 77 C. 1904 [1] 375, 808).
31) 1-P-Menthylamin. Sd. 206—207°. HCl, Pikrat (C. 1904 [2] 1046). 32) θ -Amido- $\beta\zeta$ -Dimethyl- β -Okten (Rhodinamin). Sd. 105_{16}° (Bl. [3] 29, 1048 C. 1903 [2] 1439). 33) 4-[α -Amidoisopropyl]-1-Methylhexahydrobenzol. Sd. 199—200 $^{\circ}_{750}$ (C. 1904 [1] 1517). *1) α -Oxydekan (C. r. 137, 61 C. 1903 [2] 551). *5) γ -Oxymethyl- β ζ -Dimethylheptan (Am. 30, 227 C. 1903 [2] 933). 22) α -Oxy- γ -Methylnonan. Sd. 114—116° $_{14}$ (C. r. 137, 328 C. 1903 [2] 710). 23) ε -Oxy- β -Methyl- ε -Aethylheptan. Sd. 83—86° $_{15}$ (C. r. 138, 153 C. $C_{10}H_{22}O$ 1904 [1] 577). 10) az-Dioxydekan. Sm. 71,5° (70°); Sd. 179°, (192°, 0) (U. r. 137, 329 C. 1903 [2] 711; M. 24, 629 C. 1903 [2] 1237; M. 25, 344 C. 1904 C10H22O2 11) $\gamma \delta$ -Dioxy- $\beta \gamma \delta \varepsilon$ -Tetramethylhexan. Sm. 22° (C. 1903 [2] 23) 12) isom. $\gamma \delta$ -Dioxy- $\beta \gamma \delta \varepsilon$ -Tetramethylhexan. Fl. (C. 1903 [2] 23). 13) Glykol (aus Isovaleriansäurealdehyd). Sm. 48°; Sd. 146-150°; (M. 24, 579 O. 1903 [2] 870). 14) α -Aethyläther d. $\alpha\beta$ -Dioxy- β -Propylpentan. Sd. 201° (C. r. 138, 91 C. 1904 [1] 505; Bl. [3] 31, 303 C. 1904 [1] 1133). 15) Diäthyläther d. εε-Dioxy-β-Methylpentan. Sd. 180-182° (B. 37, 188 *C.* **1904** [1] 638).

 $\mathbf{C_{10}H_{22}N_2}$ 7) 1,5-Diamido-3-Isopropyl-1-Methylhexahydrobenzol. Sd. 115-117°18.

 $C_{10}H_{28}N$

Oxalat (A. 328, 116 C. 1903 [2] 245).

*4) Diisoamylamin. Salze siehe (C. r. 135, 902 C. 1903 [1] 131).

9) Base (aus tert. Amylchlorid u. Diäthylformamid). Sd. 165—166° (C. r. 136, 1109 C. 1904 [1] 1644).

- 10 III -

5) 1,1,4,4-Tetrachlor-2,3-Diketo-1, 2, 3, 4-Tetrahydronaphtalin + $C_{10}H_4O_2Cl_4$ $^{1}/_{2}$ $^{1}H_{2}$ O. Sm. 115°. HNO₃ (A. 334, 351 C. 1904 [2] 1054). 1) 1,4,6,7-Tetrabrom-2,3-Dioxynaphtalin. Sm. 242° (A. 334, 363 C. $C_{10}H_4O_4Br_4$

1904 [2] 1055). $C_{10}H_5O_4N$

*1) 3-Nitro-1,2-Naphtochinon. Sm. 158° (C. 1903 [2] 1109). *1) 2,4,5-Trinitro-1-Oxynaphtalin. Sm. 190°. K + H₂O (A. 335, 147 C₁₀H₅O₇N₈ C. 1904 [2] 1135). *4) 2,4,8-Trinitro-1-Oxynaphtalin. Sm. 175° (A. 335, 156 C. 1904 [2]

1136).

C10H5O7Br 1) 4-Brombenzol-1,3-Dicarbonsäure-2-Ketocarbonsäure. Sm. 1929 (A. 327, 90 C. 1903 [1] 1228).

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C_{10}H_6ON_9
                7) Anhydrid d. 1-Oxy-2-Diazonaphtalin. Sm. 76-77° (C. 1903 [1] 401).
C_{10}H_6OBr_2
               *1) 2,4-Dibrom-1-Oxynaphtalin. Sm. 107-1080 (A. 333, 367 C. 1904
                   [2] 1117).
                3) 2,3-Dioxy-1,4,5,10-Naphttetrazin (Dioxypyrazinophenazin). Sm. oberh. 300°. NH<sub>4</sub> (B. 36, 4041 C. 1904 [1] 183).
C_{10}H_6O_2N_4
C<sub>10</sub>H<sub>6</sub>O<sub>2</sub>Cl<sub>2</sub>
                7) 1, 4-Dichlor-2, 3-Dioxynaphtalin. Sm. 1810 (A. 334, 353 C. 1904)
                   [2] 1054).
C_{10}H_6O_9Br_9
                6) 1,4-Dibrom-2,3-Dioxynaphtalin. Sm. 178° (A. 334, 361 C. 1904
                   [2] 1055).
                7) 6,7-Dibrom-2,3-Dioxynaphtalin. Sm. 217° (A. 334, 364 C. 1904 [2]
                   1055).
                8) 1-Dibromacetylbenzfuran. Sm. 90° (B. 36, 2865 C. 1903 [2] 832).
              *2) 1,5-Dinitronaphtalin. Sm. 214° (C. 1904 [1] 461).
C_{10}H_6O_4N_2
              *3) 1,6-Dinitronaphtalin. Sm. 161° (A. 335, 142 C. 1904 [2] 1135). 
*4) 1,8-Dinitronaphtalin. Sm. 170° (C. 1904 [1] 461).
             *14) 5 - Nitro - 4 - Nitroso-I-Oxynaphtalin. Zers. bei 250-260° (A. 335,
                   145 C. 1904 [2] 1135).
             *15) 8-Nitro-4-Nitroso-1-Oxynaphtalin. Zers. bei 235—240°. Ba + 3 H<sub>2</sub>O
                   (A. 335, 153 C. 1904 [2] 1136).
              *6) 4,8-Dinitro-1-Oxynaphtalin. Sm. 235° u. Zers. (A. 335, 154 C. 1904
C10H6O5N2
                   [2] 1136).
              *1) 1,2-Naphtochinon-4-Sulfonsäure (H. 41, 379 C. 1904 [2] 112).
C_{10}H_6O_5S
               5) 2-Oxy-1,4-Naphtochinon-6-Sulfonsäure (D.R.P. 100703). — *III,
C10H6O6S
               *2) 6,8,2-Trinitro-2-Keto-1-Methyl-1,2-Dihydrochinolin. Sm. 214 bis
C_{10}H_6O_7N_4
                   215° (J. pr. [2] 68, 103 C. 1903 [2] 445).
               *2) 4 - Chlor - 1 - Oxynaphtalin. Sm. 116-117°. Pikrat (Bl. [3] 31, 35
C<sub>10</sub>H<sub>7</sub>OCl
                   C. 1904 [1] 519).
C<sub>10</sub>H<sub>7</sub>OBr
               *1) 4-Brom-1-Oxynaphtalin. Sm. 121°. Pikrat (Bl. [3] 31, 35 C. 1904 [1]
                   519).
               *2) 2-Nitronaphtalin. Sm. 79°; Sd. 160-170°, (B. 36, 4157 C. 1904)
C_{10}H_7O_2N
               *3) 2-Nitroso-1-Oxynaphtalin (2-Oximido-1-Keto-1, 2-Dihydronaphtalin).
             Sm. 162—164° u. Zers. (B. 36, 4167 C. 1904 [1] 287).

*13) Chinolin-4-Carbonsäure (M. 24, 201 C. 1903 [2] 48).

25) 1,3-Diketo-2-Amidomethylen-2,3-Dihydroinden. Sm. 210° u. Zers.
                   (G. 32 [2] 331 C. 1903 [1] 586; G. 33 [1] 419 C. 1903 [2] 950, 1181).
                C 52,4 — H 3,1 — O 13,9 — N 30,6 — M. G. 229.
1) Ureïdamidoazin. Na + \frac{1}{2}H<sub>2</sub>O (A. 333, 45 C. 1904 [2] 770).
C_{10}H_7O_2N_5
                3) 6-Chlormethyl-1, 2-Benzpyron. Sm. 140-141 (B. 37, 195 C. 1904
C_{10}H_7O_2Cl
                   [1] 660).
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C₁₀H₇O₃N

*1) 2-Nitro-1-Oxynaphtalin. Sm. 128° (C. 1903 [2] 1109). *3) 1-Nitro-2-Oxynaphtalin. Sm. 103° (C. 1903 [2] 1109). *29) Kynurensäure (B. 37, 1807 C. 1904 [1] 1611).

38) 1, 3-Diketo-2-Hydroxylamidomethylen-2, 3-Dihydroinden. 250°. K, Ag (G. 33 [2] 154 C. 1903 [2] 1272).

39) 6-Formylamido-1,2-Benzpyron. Sm. 175-176° (Soc. 85, 1233 C. 1904 [2] 1124).

40) 6-Oximidomethyl-1,2-Benzpyron. Sm. 223° (B. 37, 196 C. 1904) [1] 661).

41) 1,3,4-Triketo-2-Methyl-1,2,3,4-Tetrahydroisochinolin. Sm. 186 bis 187° (B. 37, 1944 C. 1904 [2] 123).

42) α-Cyan-β-[3-Oxyphenyl]akrylsäure (Bl. [3] 25, 594). — *II, 1131. 43) α-Cyan-β-[4-Oxyphenyl]akrylsäure (Bl. [3] 25, 594). — *II, 1131. 44) Nitril d. 3,4,5-Trioxy-1-Aethenylbenzol-4,5-Methylenäther-2-Carbonsäure (Norcotarnonnitril). Sm. 202°. Na (B. 36, 1592 C. 1903 [2] 52).

5) Amid d. α -Cyan- β -[2-Nitrophenyl]akrylsäure. Sm. 173—174° (C. C₁₀H₇O₈N₈ 1904 [1] 878).

4) Monochlorid d. Fumarsäuremonophenylester. Sm. 390; Sd. 187 C₁₀H₇O₈Cl bis 188₄₀ (B. **35**, 4088 C. **1903** [1] 75).

12) Anhydrid d. 3-Acetylamidobenzol-1, 2-Dicarbonsäure. Sm. 181° (B. 36, 2537 Anm. C. 1903 [2] 720). $C_{10}H_7O_4N$

C₁₀H₇O₄N₃ *10) 4,5-Dinitro-1-Amidonaphtalin. Sm. 2360 (D.R.P. 145191 C. 1903) [2] 1097).

15) 1-Oxy-4-Benzoyl-1,2,3-Triazol-5-Carbonsäure. Sm. 126-1270 u. Zers. (A. 325, 167 C. 1903 [1] 645).

6) Aldehyd d. 6-Brom-3, 4, 5-Trioxy-1-Aethenylbenzol-4, 5-Methylen- $C_{10}H_7O_4Br$ äther-2-Carbonsäure (Bromnorcotarnon). Sm. 138°. Na (B. 36, 1536 C. 1903 [2] 53).

 $C_{10}H_7O_5N$ C₁₀H₇O₅N₃

8) Difurancylhydroxamsäure. Sm. 180° (B. 37, 2952 C. 1904 [2] 993). 2) Ureïdoxyoxazon. Ba + 2H₂O (A. 333, 50 C. 1904 [2] 771). 3) 4-[4-Nitrobenzoyl]methyl-1,2,3,6-Dioxdiazin. Sm. $197-198^{\circ}$ (4. 330, 240 C. 1904 [1] 945).

4) 8,P-Dinitro-2-Keto-1-Methyl-1,2-Dihydrochinolin. Sm. 2080 (J. pr. [2] 68, 102 C. 1903 [2] 445).

1) 4-Chlor-1-Merkaptonaphtalin. Sm. 43-44° (C. r. 138, 982 C. 1904 C10H7ClS [1] 1413).

1) 4-Brom-1-Merkaptonaphtalin. Sm. 55-56° (C. r. 138, 982 C. 1904 C,0H,BrS [1] 1413).

 $C_{10}H_7BrHg$

1) 1-Naphtylmagnesiumbromid (B. 37, 626 C. 1904 [1] 810). 1) Methyläther d. a-[P-Dibrom-2-Oxypheny1] propin. Sd. $165-166_{-10}^{0}$ C10H8OBr2 (B. 36, 1192 C. 1903 [1] 1179).

2) Verbindung (aus Dibromanetholdibromid). Sd. 200-205 % (B. 37, 1558 C. 1904 [1] 1438).

1) Methyläther d. $\alpha\beta$ -Dibrom- α -[?-Dibrom-2-Oxyphenyl]propen. Fl. (B. 36, 1192 C. 1903 [1] 1179). C₁₀H₈OBr₄

 $C_{10}H_8O_2N_2$ *22) 2,4-Diketo-6-Phenyl-1,2,3,4-Tetrahydro-1,3-Diazin. Sm. 269 bis 270° (Am. 29, 490 C. 1903 [1] 1310). *27) 8-Nitro-6-Methylchinolin. Sm. 122° (C. 1904 [2] 543).

*53) 5-Phenylpyrazol-3-Carbonsäure. Hydrazinsalz (B. 37, 2202 C. 1904 21 323).

54) 6-Nitro-2-Methylchinolin. Sm. 173-1740. (2HCl, PtCl₄) (M. 24, 99) C. 1903 [1] 922).

55) 4-Benzoyl-5-Methyl-1, 2, 3-Oxdiazol. Sm. 65-66° (A. 325, 136 C. 1903 [1] 643)

56) I-Phenylpyrazol-12-Carbonsäure. Sm. 138,5—139°. Ba (G. 19, 123). - IV, *498*.

57) 1-Phenylpyrazol-14-Carbonsäure. Sm. 264—265°. Na, Ba (G. 19, 120). · II, 498.

58) Nitril d. α -Oximido-4-Methylbenzoylessigsäure. Sm. 130,5—131° (B. **37**, 3469 *C.* **1904** [2] 1305).

C10H8ON 3) 5-Oximido-6-Imido-4-Keto-2-Phenyl-3,4,5,6-Tetrahydro-1,3-Diazin (B. 37, 2269 C. 1904 [2] 198).

4) Nitril d. α -Oximido- β -Nitrosimido- β -[4-Methylphenyl] propionsure. NH₄ (B. 37, 3469 C. 1904 [2] 1305).

5) Methyläther d. 2,5,6-Tribrom-3-Oxy-4-Keto-1-[\beta-Brompropy-C₁₀H₈O₂Br₄ liden]-1,4-Dihydrobenzol (A. 329, 32 C. 1903 [2] 1436). *3) Naphtalin - 2 - Sulfinsäure. Sm. 103 °. Ag (G. 33 [2] 306 C. 1904 $C_{10}H_8O_2S$

[1] 288). C₁₀H₈O₈N₂ *16) Methyläther d. 5-Nitro-8-Oxychinolin. Sm. 151° (C. 1903 [1] 36).

*22) 5-Keto-1-Phenyl-4,5-Dihydropyrazol-3-Carbonsäure. Sm. 263 ° ú. Zers. (4. 331, 103 C. 1904 [1] 931).

*37) 8-Nitro-2-Keto-1-Methyl-1, 2-Dihydrochinolin. Sm. 133—134° (J. pr. [2] 68, 100 *C*. 1903 [2] 444).

40) 6-Methylnitrosamido-1,2-Benzpyron. Sm. 168-169° (Suc. 85, 1238 C. 1904 [2] 1124).

41) 4-Nitro-5-Methyl-3-Phenylisoxazol. Sm. 48° (A. 329, 260 C. 1904

42) 4-Benzoylmethyl-1,2,3,6-Dioxdiazin. Sm. 158-159° (A. 330, 241 C. 1904 [1] 945)

43) 4-Oximido-1, 8-Diketo-2-Methyl-1, 2, 3, 4-Tetrahydroisochinolin. Sm. 207—208° (B. 37, 1945 C. 1904 [2] 123).

44) Amid d. α-Cyan-β-[3, 4-Dioxyphenyl]akrylsäure. Sm. 232° u. Zers. (C. **1904** [2] 903).

 αβ-Dibrom-γ-Keto-α-Phenylpropan-γ-Carbonsäure. Sm. 138° u. Zers. (B. 36, 2528 C. 1903 [2] 496). $C_{10}H_8O_3Br_9$

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C_{10}H_8O_4N_2 *9) 4-Nitrophenylimid d. Bernsteinsäure. Sm. 210° (A. 327, 49 Anm.
                           C. 1903 [1] 1336).
                    18) δ-Nitro-δ-Nitroso-γ-Keto-α-Phenyl-α-Buten. Sm. 123—124° (C. 1903 [2] 1432; A. 330, 256 C. 1904 [1] 946).
                    19) \delta-Oximido-\gamma-Keto-\alpha-[3-Nitrophenyl]-\alpha-Buten. Sm. 164° u. Zers. (C. 1904 [1] 28; A. 330, 252 C. 1904 [1] 946).
                    20) Methylester d. 5,8-Diketo-5,6,7,8-Tetrahydro-1,6[oder 1,7]-Benz-
                          diazin-7 [oder 6]-Carbonsäure. Sm. 203—205° u. Zers. (B. 37, 2133
                           C. 1904 [2] 232).
                    21) 3-Nitrophenylimid d. Bernsteinsäure. Sm. 175-176° (A. 327, 47
                           C. 1903 [1] 1336).
                      5) 5-Methyl-3-[3,5-Dinitrophenyl]pyrazol. Sm. 220° (J. pr. [2] 69, 466 C. 1904 [2] 596).
C_{10}H_8O_4N_4
                   2) Anemonintetrabromid. Zers. bei 180° (Ar. 230, 205). — *III, 355.
*3) 1-Oxynaphtalin-4-Sulfonsäure (J. pr. [2] 69, 85 C. 1904 [1] 813).
*8) 2-Oxynaphtalin-6-Sulfonsäure. Pararosanilinsalz (C. 1904 [1] 1013).
*10) 2-Oxynaphtalin-8-Sulfonsäure. (Na, HgCl) (D.R.P. 143726 C. 1903
C_{10}H_8O_4Br_4
C<sub>10</sub>H<sub>8</sub>O<sub>4</sub>S
                           [2] 474).
                      1) Naphtalin-?-Disulfinsäure (J. pr. [2] 68, 339 C. 1903 [2] 1172).
C_{10}H_8O_4S_9
                      7) \gamma-Keto-\alpha-[2,4-Dinitrophenyl]-\alpha-Buten. Sm. 73—74° (M. 23, 1005
C_{10}H_8O_5N_2
                           C. 1903 [1] 292).
                      8) Methylen-3-Nitrohippursäure. Sm. 165° (D.R.P. 153860 C. 1904
                           [2] 678).
                    *9) 1,6-Dioxynaphtalin-3-Sulfonsäure (J. pr. [2] 69,83 C. 1904 [1] 812). 15) 1,7-Dioxynaphtalin-3-Sulfonsäure (J. pr. [2] 69,89 C. 1904 [1] 813). 12) ay-Diketo-a-[3,5-Dinitrophenyl]butan. Sm. 121° (J. pr. [2] 69, 465
C_{10}H_8O_5S
\mathbf{C}_{10}\mathbf{H}_8\mathbf{O}_6\mathbf{N}_2

    C. 1904 [2] 596).
    13) Phenylhydrazonmethan-α, α, 4-Tricarbonsäure. Sm. 275° u. Zers.

                           (B. 37, 4175 C. 1904 [2] 1704).
                     14) Dilaktam d. \gamma\delta-Diimidohexan-\beta\beta\varepsilon\varepsilon-Tetracarbonsäure (A. 332, 129
                           C. 1904 [2] 189).
                      6) 6-Nitro-4-Acetylamidobenzol-1, 3-Dicarbonsäure. Sm. 264° u. Zers. (G. 33 [2] 286 C. 1904 [1] 265).
C10H8O7N2
                     *6) 2-Oxynaphtalin-3, 6-Disulfonsäure (D.R.P. 143448 C. 1903 [2] 403).
 C_{10}H_8O_7S_2
                   *13) 1-Oxynaphtalin-4,8-Disulfonsäure (J. pr. [2] 69, 81 C. 1904 [1] 812).
                    *6) 1,8-Dioxynaphtalin-3,6-Disulfonsäure (D.R.P. 147852 C. 1904 [1]
 C10H8O8S2
                           133).
                    *3) 8-Chlor-1-Amidonaphtalin. Sm. 98° (D.R.P. 147852 C. 1904 [1] 132). 14) 5 [oder 7]-Chlor-2-Methylchinolin. Sm. 78° (C. 1904 [2] 543). 15) 6-Chlor-2-Methylchinolin. Sm. 91°. HCl (C. 1904 [2] 543).
 C<sub>10</sub>H<sub>8</sub>NCl
                     16) 8-Chlor-2-Methylchinolin. Sm. 64 (C. 1904 [2] 543)
                   13) 6-Brom-2-Methylchinolin. Sm. 96—97° (C. 1904 [2] 543).
*3) 1,3-Di[Rhodanmethyl]benzol. Sm. 62° (B. 36, 1681 C. 1903 [2] 30).
*12) 3-Methyl-5-Phenylisoxazol. Sm. 68°; Sd. 151—152°<sub>19</sub> (C. r. 137, 796
 C_{10}H_8NBr
 \mathbf{C_{10}H_8N_9S_2}
 C<sub>10</sub>H<sub>9</sub>ON
                           C. 1904 [1] 43).
                   *32) Methyläther d. 8-Oxychinolin. Sm. 46,5°; Sd. 282°<sub>742</sub> (C. 1903 [1] 36).
*37) 2-Keto-l-Methyl-l,2-Dihydrochinolin. Sm. 72°; Sd. 320° (B. 36, 1170 C. 1903 [1] 1363; B. 36, 1209 C. 1903 [1] 1418).
*41) Anhydro-6-Oxychinolinmethyloxydhydrat (B. 36, 1170 C. 1903 [1]
                   *51) 5-Amido-1-Oxynaphtalin (J. pr. [2] 69, 84 C. 1904 [1] 812).

*54) 7-Amido-2-Oxynaphtalin (J. pr. [2] 69, 89 C. 1904 [1] 813).

*55) 1-Naphtylhydroxylamin + H<sub>2</sub>O (oder C<sub>10</sub>H<sub>11</sub>O<sub>2</sub>N). Sm. 78-79°

(D.R.P. 84138; B. 37, 3055 C. 1904 [2] 992).

57) 1-Keto-3-Aethylpseudoisoindol. Sm. 210° (C. r. 138, 988 C. 1904 [1]
                           1446).
                     13) 2,8-Diamido-4-Imido-1-Keto-1,4-Dihydronaphtalin. HCl (B. 34,
 C_{10}H_9ON_8
                           1226). — *III, 277.
                      14) γ-Semicarbazon-α-Phenylpropin. Sm. 137-138° (C. r. 138, 1341
                            C. 1904 [2] 187)
                      15) 4-Nitroso-3-Methyl-5-Phenylpyrazol. Sm. 153° (A. 325, 194
                            O. 1903 [1] 647).
                      16) 4-Amido-6-Oxy-2-Phenyl-1,3-Diazin. Sm. 252° (B. 37, 2268 C. 1904
                            [2] 198).
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1) Methyläther d. α-[P-Brom-2-Oxyphenyl] propin. Sd. 148—149%

Sm. 15,5—16,5°; Sd. 343°

2) Butyläther d. Pentachloroxybenzol.

(B. 37, 4020 C. 1904 [2] 1717).

C₁₀H₉OCl₅

C₁₀H₉OBr

(B. 36, 1190 C. 1903 [1: 1179). 2) α-Brom-γ-Keto-α-Phenyl-α-Buten. Sd. 169-170°₂₀ (Soc. 85, 464 C. 1904 [1] 1438). 3) Methyläther d. β -Brom- α -[P-Dibrom-2-Oxyphenyl] propen. Sd. 172 C, H, OBr, bis 173 ¹/₁₀ (B. 36, 1191 C. 1903 [1] 1179).
 4) Methyläther d. αβ-Dibrom-α-[P-Brom-2-Oxyphenyl] propen. (B. 36, 1190 C. 1903 [1] 1179). 5) Methyläther d. β -Brom- α -[3,5-Dibrom-4-Oxyphenyl] propen. Sm. 58° (B. 37, 1553 C. 1904 [1] 1438). 3) Methyläther d. P-Dibrom-2-Oxy-1- $[\alpha\beta\beta$ -Tribrompropyl]benzol. Fl. C, H, OBr, (B. 36, 1191 C. 1903 [1] 1179). 4) Methyläther d. 3,5-Dibrom-4-Oxy-1- $[\alpha\beta\beta$ -Tribrompropyl] benzol. Sm. 92° (B. 37, 1553 C. 1904 [1] 1438). *28) Indol-3-Methylcarbonsäure. Sm. 165° (B. 37, 1805 C. 1904 [1] 1610). *37) Phenylimid d. Bernsteinsäure. Sm. 150° (C. 1903 [2] 432; B. 37, $C_{10}H_{0}O_{2}N$ 1598 C. 1904 [1] 1418). *53) 5-Amido-1,4-Dioxynaphtalin. HCl (A. 335, 149 C. 1904 [2] 1136). 63) 2-Nitro-3-Methylinden. Sm. 107—108° (A. 336, 5 C. 1904 [2] 1465). 64) 6-Methylamido-1, 2-Benzpyron. Sm. 105-106° (Soc. 85, 1238) C. 1904 [2] 1124). 65) 6-Oxy-2-Keto-1-Methyl-1, 2-Dihydrochinolin + H₂O. Sm. 218 - 220 ° (228 °) wasserfrei. HJ (B. 36, 458 C. 1903 [1] 590; B. 36, 1175 C. 1903 [1] 1363). 66) 8-Oxy-2-Keto-1-Methyl-1, 2-Dihydrochinolin. Sm. 286 (B. 36, 1176) C. 1903 [1] 1364). 67) Aldehyd d. γ-Oximido-α-Phenylpropen-γ-Carbonsäure. Sm. 103 bis 104° (C. 1903 [2] 1432; A. 330, 250 C. 1904 [1] 946).
68) Imid d. α-Phenyläthan-αβ-Dicarbonsäure. Sm. 90° (M. 24, 421 C. 1903 [2] 622). *3) 4-Oximido-5-Keto-3-Methyl-1-Phenyl-4,5-Dihydropyrazol. Sm. C10H9O2N8 156° (A. 328, 75 C. 1903 [2] 249). *27) Nitril d. 2, 6-Diketo-4-Propyl-1, 2, 3, 6-Tetrahydropyridin-3, 5-Dicarbonsäure. NH₄, Ag (A. 325, 218 C. 1903 [1] 439).
30) 1-Oxy-4-Benzoyl-5-Methyl-1, 2, 3-Triazol. Zers. bei 190° (A. 325, 166) C. 1903 [1] 645).
 31) Amid d. 5-Keto-3-Phenyl-4,5-Dihydropyrazol-1-Carbonsüure. Sm. 184—185° (A. 331, 317 C. 1904 [2] 46). C10H0O0Br 9) Methylenäther d. P-Brom-3,4-Dioxy-1-Propenylbenzol. Sm. 208° (C. 1904 [2] 1568). 10) Methylester d. β -[4-Bromphenyl]akrylsäure. Sm. 79—80° (B. 37, 223 C. 1904 [1] 588). *1) Methylenäther d. ?-Brom-3,4-Dioxy-1-[αβ-Dibrompropyl]benzol. Sm. 110-111° (C. 1903 [1] 969).
*4) Methyläther d. α-Bromäthyl-3,5-Dibrom-4-Oxyphenylketon. C₁₀H₀O₂Br₃ Sm. 101° (B. 37, 1549 C. 1904 [1] 1437). 13) 3-Methyläther d. 2, 5, 6-Tribrom-3, 4-Dioxy-1-Propenylbenzol. Sm. 118° (A. 329, 33 C. 1903 [2] 1436).

14) Methyläther d. 2,5-Dibrom-3-Oxy-4-Keto-1-[β-Βτοπτουν-1:2....]

1,4-Dihydrobenzol. Zers. bei 175° (A. 329, 23 C. 1903)

15) Methyläther d. polym. 2,5-Dibrom-3-Oxy-4-Keto-1-[β-Βτοπρουγliden]-1,4-Dihydrobenzol (A. 329, 25 C. 1903 [2] 1436). 2) 3-Methyläther d. 2,5,6-Tribrom-3,4-Dioxy-1- $[\alpha\beta$ -Dibrompropyl]-C10H0O0Br benzol. Sm. 130° (A. 329, 30 C. 1903 [2] 1436). *5) β -Oximido- $\alpha \gamma$ -Diketo- α -Phénylbutan. Sm. 124-126° (A. 325, 136 $C_{10}H_9O_8N$ C. 1903 [1] 643). 45) Methyläther d. 5-Keto-3-[4-Oxyphenyl]-4, 5-Dihydroisoxazol. Sm. 143° u. Zers. (C. 1897 [2] 616). — *II, 1040. 46) 6[oder 7]-Aethyläther d. 6[oder 7]-Oxy-1, 4-Diketo-3-Methyl-1,2,3,4-Tetrahydroisochinolin. Zers. bei 240° (B. 37, 1979 C. 1904

47) Methylenhippursäure (D.R.P. 148669 C. 1904 [1] 411).

10 III.

- C10HOO8N 48) Methylester d. β -[4-Nitrosophenyl] akrylsäure. Sm. 111-112° (Am. 32, 395 C. 1904 [2] 1498).
 - 49) Acetat d. 5-Oxy-1-Methylbenzoxazol. Sm. 55° (B. 35, 4205 C. 1903 [1] 146).
- $C_{10}H_9O_8N_8$ *25) 4-[\alpha-Oximido-\alpha-Phenyl\text{athyl}]-1, 2, 3, 6-Dioxdiazin. Sm. 215°. (A. 330, 237 C. 1904 [1] 945).
 - 28) 6-Nitro-2-Acetyl-5-Methylindazol. Sm. 203-204° (B. 37, 2593 C. 1904 [2] 660).
 - Sm. 182-183° (B. 37, 2589 29) 5-Nitro-2-Acetyl-6-Methylindazol. C. 1904 [2] 660).
 - 30) $\alpha \gamma$ -Laktam d. α -Cyan- $\beta \gamma$ -Diimido- δ -Acetyl- ε -Ketohexan- α -Carbonsaure. Sm. 175° (A. 382, 156 C. 1904 [2] 192).
 - 31) Methylester d. 5-Oxy-1-Phenyl-1, 2, 3-Triazol-4-Carbonsäure + H₂O. Sm. 72-73°. NH₄, Na, Cu + 2H₂O, Anilinsalz, Phenylhydrazinsalz, o-Tolidinsalz, Benzidinsalz, Dianisidinsalz (B. 35, 4049 C. 1903 [1] 169; A. 335, 29 C. 1904 [2] 1229).

 32) Methylester d. 5-Keto-1-Phenyl-4,5-Dihydro-1,2,3-Triazol-4-
 - Carbonsäure. Sm. 82—83°. o-Tolidinsalz (B. 35, 4049 C. 1903 [1] 169; A. 335, 63 C. 1904 [2] 1230).
 - 33) Amid d. α -Cyan- β -[3-Nitrophenyl] propionsäure. Sm. 147—148° (C. 1904 [1] 878).
 - 34) Amid d. α -Cyan- β -[4-Nitrophenyl] propionsäure. Sm. 168,5° (C. 1904 [1] 878).
- C10H9ON 2) 1-Ureïdo-5-Phenyl-1, 2, 3-Triazol-4-Carbonsäure. Sm. 208 ° u. Zers. (B. 36, 3615 C. 1903 [2] 1380).
- *2) Methylenäther d. β-Nitro-α-[3,4-Dioxyphenyl]propen. (A. 332, 331 C. 1904 [2] 652). $C_{10}H_9O_4N$
 - *23) Methylester d. β -[4-Nitrophenyl]akrylsäure. Sm. 160° (Am. 32, 395 C. 1904 [2] 1498).
 - *26) Phenylimid d. d-Weinsäure. Sm. 225° u. Zers. (Soc. 83, 1365 C. **1904** [1] 85).
 - *35) Methylester d. 3-Keto-3,4-Dihydro-1,4-Benzoxazin-6-Carbonsäure. Sm. 193° (A. 325, 338 C. 1903 [1] 771).
 - 39) 4,5-Methylenäther d. 4,5,6-Trioxy-2-Aethenyl-1-Oximidomethylbenzol (Oxim d. Norcotarnon). Sm. 202-2030 (B. 36, 1531 C. 1903 [2] 52).
 - 40) trans-1-[?-Nitrophenyl]-R-Trimethylen-2-Carbonsäure. Sm. 1540 (B. 36, 3786 C. 1904 [1] 43).
 - 41) 4-Amido-4-Oxy-3,4-Dihydrobenzpyran-2-Carbonsäure (Soc. 79, 471). — *III, 553.
 - 42) Lakton d. ?-Nitro-l- $[\alpha$ -Oxyisopropyl] benzol-2-Carbonsäure (Nitro-
 - dimethylphtalid). Sm. 131—132° (B. 37, 736 C. 1904 [1] 1078).
 43) Methylester d. 1-Keto-2-Methyl-1, 2-Dihydrobenzoxazol-4-Carbonsäure. Sm. 168° (A. 325, 328 C. 1903 [1] 770).
- 6) $\gamma \delta$ -Dioximido- α -[3-Nitrophenyl]- α -Buten. Sm. 220° (C. 1904 [1] 28; A. 330, 253 C. 1904 [1] 946). C₁₀H₉O₄N₈
- $C_{10}H_{9}O_{4}Br$ 11) β -Brom- α -Phenyläthan- $\beta\beta$ -Dicarbonsäure. Sm. 137° (B. 37, 3063) C. 1904 [2] 1207).
- C₁₀H₀O₅N *14) 4-Acetylamidobenzol-1, 3-Dicarbonsäure. Sm. 289,50 (B. 36, 1803 C. 1903 [2] 283).
 26) Lakton d. β-Nitro-α-Oxy-α-Methoxyl-α-Phenyläthan-2-Carbon
 - säure. Sm. 110-111°. K (B. 36, 576 C. 1903 [1] 711).
- Nitrat d. 4-[β-Oxy-β-Phenyläthyl]-1,2,3,6-Dioxdiazin. Sm. 101 bis 102° (C. 1903 [2] 1432; A. 330, 249 C. 1904 [1] 946). $C_{10}H_9O_5N_8$
- 28) α -[3-Nitrophenyl] äthan- $\beta\beta$ -Dicarbonsäure. Ba (C. 1904 [1] 878). $C_{10}H_9O_6N$ 29) Aldehyd d. 5-Nitro-3-Acetoxyl-4-Oxybenzol-4-Methyläther-1-
- Carbonsäure. Sm. 86° (B. 35, 4397 C. 1903 [1] 341).
 4) 2-Nitro-4-Acetylamidophenyloxaminsäure. Sm. 228° u. Zers. Ba C10HOON (B. 36, 414 C. 1903 [1] 630).
 - 5) 3-Amido-4-Acetylamidophenyloxaminsäure. Sm. 2090 (B. 36, 415 C. 1903 [1] 631).
 - 6) Aethylester d. 4-Cyan-5-Nitro-3-Hydroxylamido-2-Oxybenzol-1-Carbonsäure. Sm. 186°. NH₄ (B. 37, 1851 C. 1904 [1] 1493).

7) 2-Nitrophenylamid d. N-Acetoximidooxyessigsäure. Sm. 160° (Suc C10H0O8N9 81, 1568 C. 1903 [1] 157). 8) 3-Nitrophenylamid d. N-Acetoximidooxyessigsäure. Sm. 184° u.

Zers. Na. K (Soc. 81, 1569 C. 1903 [1] 157).

9) 4-Nitrophenylamid d. N-Acetoximidooxyessigsäure. Sm. 182º u.

C, H, O, N,

9) 4-Nitrophenylamid d. N-Acetoximidooxyessigsäure. Sm. 182° u. Zers. (Scc. 81, 1570 C. 1903 [1] 158). C 40,7 — H 3,0 — O 32,5 — N 23,7 — M. G. 295.

1) 1,3-Dimethylpurpursäure. NH₄ (Am. 31, 668 C. 1904 [2] 317).

2) 1',3'-Dimethylpurpursäure. NH₄ + H₂O (Am. 31, 676 C. 1904 [2] 317).

3) 7-Aethylpurpursäure. NH₄ + H₂O (Am. 31, 676 C. 1904 [2] 318).

*4) Nitroopiansäure. Sm. 168,5—169,5° (B. 36, 1541 C. 1903 [2] 112; M. 24, 796 C. 1904 [1] 163).

5) Methylenchlorid d. Chinolin. 2 + PtCl₄ + H₂O (B. 16, 2004; A. 326, 320 C. 1903 [1] 1088).

9) 3-Chlor-5-Methyl-1-Phenylpyrazol. Sd. 295° (B. 36, 718 (L1903)).

C.H.O.N

C, H, NCl, 9) 3-Chlor-5-Methyl-1-Phenylpyrazol. Sd. 295° (B. 36, 718 (J. 1903)

C, H, N, Cl [1] 776). *1) P-Jod-1-Methyl-2-[3-Pyridyl]pyrrol (Jodnikotyrin). Sm. 110° (C. r. C.H.N.J

137, 861 C. 1904 [1] 104). *9) 3-Keto-5-Methyl-1-Phenyl-2, 3-Dihydropyrazol. Sm. 167° (B. 36. C,H,ON, 718 C. 1903 [1] 776).

*57) 4,8-Diamido-I-Oxynaphtalin. 2HCl (A. 335, 155 C. 1904 [2] 1136). *61) Amid d. α -Cyan- β -Phenylpropionsäure. Sm. 133—133,5° (A. 325, 222 C. 1903 [1] 439).

*63) 4,5-Diamido-1-Oxynaphtalin. 2HCl (A. 335, 152 C. 1904 [2] 1136). 70) 6-Amido-2-Keto-1-Methyl-1, 2-Dihydrochinolin. Sm. 165 (B. 36.

1173 C. 1903 [1] 1363). 71) Nitril d. d-a-Benzoylamidopropionsaure. Sm. 115-120° (Bl. [3] 29. 1196 C. 1904 [1] 361).

72) Nitril d. 1-α-Benzoylamidopropionsäure. Sm. 123,5° (Bl. [3] 29, 1196 C. 1904 [1] 361).

73) Nitril d. i-α-Benzoylamidopropionsäure. Sm. 108° (Bl. [3] 29, 1193 C. 1904 [1] 361).

74) Nitril d. r-α-Benzoylamidopropionsäure. Sm. 161-162 ° (Bl. |3) 29. 1196 C. 1904 [1] 361).

75) Nitril d. Phenylacetylamidoessigsäure. Sm. 90,5° (B. 36, 1648) C. 1903 [2] 32). 76) Nitril d. 4-Methylbenzoylamidoessigsäure. Sm. 153° (B. 36, 1648)

C. 1903 [2] 32).
77) Nitril d. 2-Propionylamidobenzol-1-Carbonsäure. Sm. 119°(C. 1903)

175). 78) Nitril d. 3-Propionylamidobenzol-1-Carbonsäure. Sm. 83,5-840 (C. 1904 [2] 101).

79) Nitril d. 4-Propionylamidobenzol-1-Carbonsäure. Sm. 169° (U. 1903) [2] 113).

 $C_{10}H_{10}ON_4$ 15) 4,5-Diamido-6-Oxy-2-Phenyl-1,3-Diazin. HCl (B. 37, 2269 C. 1904 [2] 198).

16) Hydrazid d. 5-Phenylpyrazol-3-Carbonsäure. Sm. 2050 (B. 37, 2203 C. 1904 [2] 323).

4) Methyläther d. β -Brom- α -[?-Brom-2-Oxyphenyl]propen. Sd. 160 bis 162°_{10} (B. 36, 1189 C. 1903 [1] 1179). C10H10OBr C₁₀H₁₀OBr₄ 3) Methyläther d.?-Brom-2-Oxy-1-[αββ-Tribrompropyl] benzol. Sm. 105

bis 106° (B. 36, 1190 C. 1903 [1] 1179). 4) Methyläther d. P-Dibrom-2-Oxy-1-[αβ-Dibrompropyl|benzol (B. 36, 1191 C. 1903 [1] 1179).

5) Methyläther d. 3,5-Dibrom-4-Oxy-1- $[a\beta$ -Dibrompropyl] benzol. Sm. 101,5° (B. 37, 1550 C. 1904 [1] 1438).

C10H10O2N2*10) 2,4-Diketo-3-Phényl-1-Methyltetrahydroimidazol. Sm. 199,50 (Bl. [ś] **29,** 1200 *C.* **1904** [1] 354).

*32) Anhydrid d. α - Diisonitrosoanethol. Sm. 63° (97°) (A. 329, 267 C. 1904 [1] 32).

*45) 1,2 - Phenylenamid d. Bernsteinsäure. Sm. 236 (A. 327, 21, 29 7. **1903** [1] 1336).

*52) 2,5-Diketo-4-Methyl-1-Phenyltetraimidazol. Sm. 172° (Bl. [3] 29, 1194 C. 1904 [1] 361).

- $C_{10}H_{10}O_2N_2$ 60) $\gamma\delta$ -Dioximido- α -Phenyl- α -Buten. Sm. 201—202 $^\circ$ u. Zers. (C. 1903)
 - [2] 1432; A. 330, 248 C. 1904 [1] 946).
 61) Peroxyd d. 4-Oxy-1-[αβ-Dioximidopropyl]benzol-4-Methyläther. Sm. 97° (B. 36, 3022 C. 1903 [2] 1002).
 - 62) Aethyläther d. 5-Oxy-3-Phenyl-1,2,4-Oxdiazol. Sm. 360 (Am. 32, 371 C. **1904** [2] 1507).
 - 63) Aethyläther d. 3-Oxy-5-Phenyl-1, 2, 4-Oxdiazol. Sm. 47-48° (Am.
 - 32, 370 C. 1904 [2] 1507). 64) Aethyläther d. 5-Oxy-2-Phenyl-1,3,4-Oxdiazol. + AgNO₃ (P. Gur-MANN, Dissert., Heidelberg 1903). 65) 3-Nitro-1-Aethylindol. Sm. 102° (G. 34 [2] 61 C. 1904 [2] 710).

 - 66) Benzimidazol-2-[Aethyl- β -Carbonsäure]. Šm. 226° (A. 327, 23 C. 1903 [1] 1336).
 - 67) Methylester d. β -Phenyl- α -Diazopropionsäure. Sd. 85—87°, (B. **37**, 1269 *C.* **1904** [1] 1334).
 - 68) Aethylester d. Phenyldiazoessigsäure. Fl. (B. 37, 1266 C. 1904) [1] 1333).
 - 69) Aethylester d. 3-Cyanphenylamidoameisensäure. Sm. 61-620 (C. **1904** [2] 102).
 - 70) 2-Amidophenylimid d. Bernsteinsäure. Sm. 230-2320 u. Zers. (A. **337**, 46 \bar{C} . **1903** [1] 1336).
 - 71) 3-Amidophenylimid d. Bernsteinsäure. Sm. 196-1980 (A. 327, 47
 - C. 1903 [1] 1336). 72) 4-Amidophenylimid d. Bernsteinsäure. Sm. 236° (A. 327, 25 C. **1903** [1] 1336).
- $C_{10}H_{10}O_{2}N_{4}$ 9) 1-Phenylamido-5-Methyl-1, 2, 3-Triazol-4-Carbonsäure + H₂O. Sm. 162° (wasserfrei) (A. 325, 158 C. 1903 [1] 644).
 - 10) Azid d. α-Benzoylamidopropionsäure. Sm. 54° (J. pr. [2] 70, 145 C. 1904 [2] 1394).
- $C_{10}H_{10}O_2Cl_2*3$ 3,6-Dichlor-5-Isopropyl-2-Methyl-1,4-Benzochinon. Sm. 99° (A. 336, 26 C. 1904 [2] 1467).
 - 11) 3,4-Dichlormethylenäther d. 3,4-Dioxy-I-Propylbenzol.
 - bis 145°₁₀ (C. r. 138, 423 C. 1904 [1] 797). 12) Dichlormethylenäther d. 3,4-Dioxy-1-Isopropylbenzol. Sd. 131 134 $^{\circ}_{12}$ (C. r. 188, 1703 C. 1904 [2] 436). 13) Benzoat d. $\alpha\gamma$ -Dichlor- β -Oxypropan. Sd. 296 $^{\circ}$ (C. 1903 [1] 134).
- C₁₀H₁₀O₂Cl₄ 2) Diäthyläther d. 2,4,5,6-Tetrachlor-1,3-Dioxybenzol. Sm. 73° (Am. **31**, 381 *C*. **1904** [1] 1409).
- $C_{10}H_{10}O_2Br_2^*17$) Methylester d. i- $\alpha\beta$ -Dibrom- β -Phenylpropionsäure. Sm. 117° (Soc.
 - 83, 670 C. 1903 [2] 115). 21) 3-Methyläther d. 2,5-Dibrom-3,4-Dioxy-1-Propenylbenzol. Sm. 102° (A. 329, 25 C. 1903 [2] 1436).
 - 22) Methyläther d. 5-Brom-3-Oxy-4-Keto-1-[β-Brompropyliden]-1,4-Dihydrobenzol. Zers. oberh. 140° (A. 329, 13 C. 1903 [2] 1434).
- $C_{10}H_{10}O_2Br_4$ 3) 3-Methyläther d. 2,5-Dibrom-3,4-Dioxy-1- $[\alpha\beta$ -Dibrompropyl]-
- benzol. Sm. 124° (A. 329, 22 C. 1903 [2] 1435). $C_{10}H_{10}O_3N_2$ 35) s-Acetylbenzoylharnstoff. Sm. 187° (B. 36, 3217 C. 1903 [2] 1056).
 - 36) Aethyläther d. 5-Oxy-4-Phenyl-1, 2, 3, 6-Dioxdiazin. Sm. 830 (A. **328**, 253 *C.* **1903** [2] 1001).
 - 37) Nitril d. 6-Nitro-2-Oxybenzolpropyläther-1-Carbonsäure. Sm. 105° (R. 23, 35 C. 1904 [1] 1137).
- $C_{10}H_{10}O_8Br_2$ 14) Methylenäther d.?-Brom-3,4-Dioxy-l-[β -Brom- α -Oxypropyl] benzol. Sm. 89° (C. 1903 [1] 969).
- 2) Verbindung (aus Benzophenonoxim). Sm. 86° (G. 34 [1] 103 C. 1904 C10H1008S [1] 1011).
- $C_{10}H_{10}O_4N_2*15$) Monomethylester d. Phenylhydrazonmethan- $\alpha\alpha$ -Dicarbonsäure. Sm. 125—126° (B. 37, 4171 C. 1904 [2] 1703).
 - *21) α -Phenylhydrazonäthan- $\alpha\beta$ -Dicarbonsäure. Sm. 98—102° (A. 331,
 - 102 *C.* 1904 [1] 931). 23) α -Oximido- β -Nitro- γ -Keto- α -Phenylbutan. Sm. 84° (*A.* 329, 258 C. 1904 [1] 32).
 - 24) Dimethyläther d. 5,6-Dioxy-1,4-Diketo-1,2,3,4-Tetrahydro-2,3-Benzdiazin? (Hydrazid d. Hemipinsaure). Sm. 227-229° (M. 24, 381 C. 1903 [2] 493).

 $C_{10}H_{10}O_8N_6$

 $C_{10}H_{10}O_4N_2$ 25) 3-Acetylamidophenyloxaminsäure. Sm. 209° u. Zers. (B. 36, 413) C. 1903 [1] 630).

26) 4-Acetylamidophenyloxaminsäure. Sm. oberhalb 270° (B. 36, 414

C. 1903 [1] 630). 27) Benzoat d. α-Nitro-α-Oximidopropan. Sm. 85° (G. 33 [1] 511 C. 1903 [2] 938).

8) Dilaktam d. $\gamma\delta$ -Diimidohexan- $\beta\beta$ ss-Tetracarbonsäure- β s-Diamid (A. 332, 128 C. 1904 [2] 189). C, H, O, N, 9) $\alpha\alpha$ -Diamid d. Phenylhydrazonmethan- $\alpha\alpha$, 2-Tricarbonsäure. Sm.

275° (B. 37, 4173 C. 1904 [2] 1703).

10) $\alpha\alpha$ -Diamid d. Phenylhydrazonmethan- $\alpha\alpha$, 3-Tricarbonsäure. Sm. oberh. 285° (B. 37, 4174 C. 1904 [2] 1704).

11) αα-Diamid d. Phenylhydrazonmethan-αα,4-Tricarbonsäure. Sm. oberh. 285° (B. 37, 4175 C. 1904 [2] 1704).

12) α-Semicarbazid d. Phenylimidoessigsäure-2-Carbonsäure. bei 278-280°. Ca + $11\ddot{H}_2$ O, Ba + $9^1/_2H_2$ O (A. 332, 243 C. 1904) [2] 39).

3) Diacetat d. 3-Jod-1-Jodobenzol. Sm. 160° (B. 37, 1303 C. 1904 [1] C10H10O4J2 1339).

 $C_{10}H_{10}O_5N_2*10$) 2-Nitrophenylmonamid d. Bernsteinsäure. Sm. 131° (A. 327, 54) C. 1903 [1] 1336). *11) 4-Nitrophenylmonamid d. Bernsteinsäure. Sm. 202° (A. 327, 55

C. 1903 [1] 1336).

17) Acetyl - 4 - Nitrophenylamidoessigsäure. Sm. 191-1920 (D.R.P. 152012 C. 1904 [2] 70). 18) 3-Nitro-4-Acetylamidobenzol-1-Carbonsäure. Sm. 1900 (B. 37,

1029 C. 1904 [1] 1207). 19) Aethylester d. 2-Nitrophenyloxaminsäure. Sm. 113° (Soc. 81, 1568

C. 1903 [1] 157).

20) Aethylester d. 4-Nitrophenyloxaminsäure. Sm. 166° (Soc. 81, 1570 C. 1903 [1] 158).

21) 3-Nitrophenylmonamid d. Bernsteinsäure. Sm. 181-1820 (A. 327, 54 C. 1903 [1] 1336). C₁₀H₁₀O₆N₂ 11) Methylenäther d. 2,6-Dinitro-3,4-Dioxy-1-Propylbenzol. Sm. 1210

(Ar. 242, 90 C. 1904 [1] 1007). 12) α -Oxy- γ -Keto- α -[2,4-Dinitrophenyl] butan. Sm. 63—64° (M. 23, 1003

C. 1903 [1] 292).

13) Dimethylester d. 6-Nitro-4-Amidobenzol-1, 3-Dicarbonsäure. Sm. 153° (G. 33 [2] 288 C. 1904 [1] 265).

14) Aethylester d. 4,6-Dinitro-1-Methylbenzol-3-Carbonsäure. Sm. 61—62° (G. 33 [2] 279 C. 1904 [1] 265).

15) Amid d. Oxyessig-2-Nitrophenyläthersäure-4-Carbonsäuremethylester. Sm. 186° (A. 325, 336 C. 1903 [1] 771). 3) Propylester d. 2,4,6-Trinitrophenylamidoameisensäure. Sm. 1390 $C_{10}H_{10}O_8N_4$

Soc. 85, 652 C. 1904 [2] 310). 4) Isopropylester d. 2, 4, 6-Trinitrophenylamidoameisensäure. Sm.

177,5° (Soc. 85, 652 C. 1904 [2] 310). C 35,1 - H 2,9 - O 37,4 - N 24,6 -- M. G. 342.

1) Verbindung + 2H₂O (aus Alloxan u. Glykol) (A. 333, 68 C. 1904

1) 1,3-Phénylendi[Sulfonessigsäure]. Na₂ + 3H₂O (J. pr. [2] 68, 327 C10H10O8S2 C. 1903 [2] 1171). $C_{10}H_{10}N_2S$

9) Methyläther d. 5-Merkapto-l-Phenylpyrazol. Sd. 142-143°, (A. **331**, 223 *C.* **1904** [1] 1220).

10) 5-Thiocarbonyl-3-Methyl-1-Phenyl-4,5-Dihydropyrazol. Sm. 100%: Sd. 294° (B. 37, 2775 C. 1904 [2] 711). 11) 4-Thiocarbonyl-2-Aethyl-4,5-Dihydro-1,3-Benzdiazin. Sm. 203

bis 204° u. Zers. (C. 1903 [1] 1270).

3) 5-Chlor-4-Amido-3-Methyl-1-Phenylpyrazol. Sm. 49°. HCl (D.R.P. $C_{10}H_{10}N_8C1$ 153861 C. 1904 [2] 680).

C₁₀H₁₀ClBr 1) α -Chlor- β -Brom- α -Phenyl- α -Buten. Sd. 140—145% (B. 36, 774 C. 1903 [1] 835).

*2) γ-Imido-α-Keto-α-Phenylbutan (Benzoylacetonamin). Sm. 143° (B. 37, C10H11ON 585 *C.* **1904** [1] 940).

- C10H11ON *7) 2-Oximido-1, 2, 3, 4-Tetrahydronaphtalin (B. 36, 709 C. 1903 [1] 818). *46) 1-Oximido-2-Methyl-2, 3-Dihydroinden. Sm. 104° (Soc. 83, 916) C. 1903 [2] 504).
 - 51) β -Amido- γ -Keto- α -Phenyl- α -Buten. Sm. 125° (Soc. 83, 378 C. 1903 [1] 845, 1144).
 - 52) γ -Oximido- α -[4-Methylphenyl]propen. Sm. 135—136° (B. 36, 851) O. **1903** [1] 975).
 - 53) I-[α-Amidoāthyl]benzfuran. Sd. 140°₂₀. HCl, (2HCl, PtCl₄), (HCl, AuCl₃), (HCl, HgCl₂), HBr, HJ (B. 36, 2868 C. 1903 [2] 832).
 54) Methyläther d. 3-Oxy-2-Methylindol. Sm. 82—83° (G. 33 [1] 321
 - C. 1903 [2] 281).
 - 55) Laktam d. γ-Amido γ-Phenylbuttersäure. Sm. 91° (B. 36, 174 C. 1903 [1] 445).
 - 56) Amid d. α -Phenylpropen- γ -Carbonsäure. Sm. 130° (B. 36, 174 C. 1903 [1] 445).
 - 57) Amid d. trans-1-Phenyl-R-Trimethylen-2-Carbonsäure. Sm. 187 bis 188° (B. 36, 3784 C. 1904 [1] 42).
 - 58) Phenylamid d. Propen-β-Carbonsäure (Ph. d. Methakrylsäure). Sm. 87° (B. 36, 1269 C. 1903 [1] 1219).
- 22) α [α Cyanäthyl] β Phenylharnstoff. Sm. 135° (Bl. [3] 29, 1194
 C. 1904 [1] 361). $C_{10}H_{11}ON_{3}$
 - 23) α -Cyanmethyl- α -Methyl- β -Phenylharnstoff. Sm. 83° (Bl. [3] 29, 1200 C. 1904 [1] 354).
 - 24) 2-Semicarbazon-2, 3-Dihydroinden. Sm. 203 205 (A. 336, 3 C. 1904) [2] 1465).
 - 25) Imidoather d. Phenylcyancarbodiimid. Sm. 126-1270 (B. 37, 1684 C. 1904 [1] 1491).
 - 26) Aethyläther d. 5-Oxy-1-Phenyl-1, 2, 3-Triazol. Sm. 58-59° (A. 335, 80 C. 1904 [2] 1231).
 - 27) Nitril d. α-[Methyl-4-Nitrosophenylamido] propionsäure. Sm. 75,5° (B. 36, 759 C. 1903 [1] 962).
- $C_{10}H_{11}OC1$ *14) Chlorid d. d- α -Phenylpropan- β -Carbonsäure. Sd. 120—121 °₁₅ (Soc. 83, 1008 C. 1903 [2] 663; Soc. 85, 447 C. 1904 [1] 1445)
 - 15) Chlorid d. i α Phenylpropan β Carbonsäure. Fl. (Soc. 83, 915)
- C. 1903 [2] 504). C₁₀H₁₁OBr 8) ?-Brom-?-Oxy-1,2,3,4-Tetrahydronaphtalin. Sm. 112° (C. r. 139, 673 C. 1904 [2] 1654). C₁₀H₁₁OBr₃ *2) Methyläther d. 3-Brom-4-Oxy-1-[$\alpha\beta$ -Dibrompropyl]benzol.
- Sm. 112,5° (B. 37, 1546 C. 1904 [1] 1437).
 - 8) 2,6,?-Tribrom-3-Oxy-4-Isopropyl-1-Methylbenzol. Sm. 50-510 (M. 24, 72 C. 1903 [1] 767). 9) Methyläther d. ?-Brom-2-Oxy-1- $[\alpha\beta$ -Dibrompropyl]benzol. Sm. 84
 - bis 85° (B. 36, 1189 C. 1903 [1] 1179). 10) Methyläther d. 3, 6-Dibrom-5-Oxy-2-Brommethyl-1, 4-Dimethyl-
- benzol. Sm. 122-124° (A. 334, 302 C. 1904 [2] 985). $C_{10}H_{11}O_{2}N$ *11) Methyl-4-Acetylamidophenylketon. Sm. 166—167° (B. 36, 394 C.
 - 1903 [1] 723). *54) Methyläther d. 5-Oxy-1, 3-Dimethylbenzoxazol. Sm. 71-72° (B. 36,
 - 892 C. 1903 [1] 966).
 - 67) γ -Nitro- α -Phenyl- β -Methylpropen. Fl. (C. 1904 [1] 1496).
 - 68) trans 1 [?-Amidophenyl]-R-Trimethylen 2 Carbonsaure. HCl (B. **36**, 3786 C. **1904** [1] 43).
 - 69) Acetat d. γ-Οxy-β-[2-Pyridyl] propen. Sd. 140—144°₁₈. (2 HCl, PtCl₄) (B. 37, 744 C. 1904 [1] 1090).
 - 70) Methylamid d. Benzoylessigsäure. Sm. 104—105° (C. 1904 [2] 905).
- $\mathbf{C_{10}H_{11}O_2N_3}~^*20)~~\mathbf{Aethyl\"{a}ther}~\mathbf{d.}~\mathbf{3-Oxy-5-Keto-l-Phenyl-4,5-Dihydro-l,2,4-Triazol.}$ Sm. 152° (B. 36, 3146 C. 1903 [2] 1073).
 - 25) Monosemicarbazon d. $\alpha\beta$ -Diketo- α -Phénylpropan. Sm. 213° u. Zers. (B. 36, 3187 C. 1903 [2] 939).
 - 26) Methyläther d. 3-Oxy-5-Keto-4-Methyl-1-Phenyl-4,5-Dihydro-
- 1,2,4-Triazol. Sm. 95° (B. 36, 3149 C. 1903 [2] 1073). $C_{10}H_{11}O_2Cl$ 17) Methylenäther d. 3,4-Dioxy-1-[α -Chlorpropyl] benzol. Fl. 2 + PtCl. + Pyridin, + AuCl₃ + Pyridin (C. 1904 [2] 1568).

- C₁₀H₁₁O₂Br 19) 3-Methyläther d. 5-Brom-3,4-Dioxy-1-Propenylbenzol (A. 329. 15 C. 1903 [2] 1435).
 - 20) Methyläther d. 3-Oxy-4-Keto-1-[β -Brompropyliden]-1,4-Dihydrobenzol. Fl. (A. 329, 9 C. 1903 [2] 1434).
- $C_{10}H_{11}O_2Br_3*1$) 3-Methyläther d. 5-Brom-3,4-Dioxy-1-[$\alpha\beta$ -Dibrompropyl] benzol. Sm. 138° (A. 329, 12 C. 1903 [2] 1434). 4) 3-Methyläther d. P-Jod-3, 4-Dioxy-1-Allylbenzol (Jodeugenol).
- $C_{10}H_{11}O_{2}J$ Sm. 78° n. Zers. (C. 1903 [2] 306).
- $C_{10}H_{11}O_3N$ *18) Phenylacetylamidoessigsäure. Sm. 136° (B. 36, 1649 C. 1903 |2] 32). *36) syn-7-Oximido-7-Phenylbuttersäure. Sm. 1296 (M. 24, 82 C. 1903) [1] 769).
 - *47) Methylester d. Phenylimidooxyessigmethyläthersäure. Sd. 130 bis 132°₁₂ (Soc. 85, 988 C. 1904 [2] 831).
 - *50) 1-Methylester d. Benzol-1-Carbonsäure-2-Methylcarbonsäure. Sm. 110-112° (M. 24, 953 C. 1904 [1] 916).
 - *57) Acetat d. 2-Acetylamido-I-Oxybenzol. Sm. 124,5° (B. 36, 2050 C. 1903 [2] 383).
 - 85) Methyläther d. β -Nitro- α -[4-Oxyphenyl] propen. Sm. 48° (47°); Sd. 180—190°₁₂ (B. 20, 2983; A. 329, 263 C. 1904 [1] 32; A. 332, 319 C. 1904 [2] 651).
 - 86) Aethyläther d. β-Nitro-α-Oxy-α-Phenyläthan. Sd. 143°,4 (A. 328, 242 C. 1903 [2] 999).
 - 87) 3,4-Methylenäther d. β -Oximido- α -[3,4-Dioxyphenyl] propan. Sm. 86—87° (A. 332, 332 C. 1904 [2] 652).
 - 88) Anhydrid d. β -Diisonitrosoanethol. Sm. 128° (B. 36, 3022 C. 1903) [2] 1002).
 - 89) 2-Acetylphenylamidoessigsäure. Sm. 225° (B. 32, 3234). *III, 96.
 - 90) α -[4-Methoxylphenyl]imidopropionsäure (\hat{G} . 34 [2] 272 \hat{G} . 1904 [2]
 - 91) 2-Aethylformylamidobenzol-I-Carbonsäure. Sm. 119,50 (B. 36, 1806 C. 1903 [2] 284)
 - 92) Methylester d. Methylphenyloxaminsäure. Sd. 170-175% (Soc. 85,
 - 988 *C*. **1904** [2] 831). 93) Methylester d. 4-Methylphenyloxaminsäure. Sm. 145° (Soc. 85.
 - 995 C. 1904 [2] 831). 94) Phenylamid d. Acetoxylessigsäure. Sm. 89-90° (B. 37, 3975
 - 0. 1904 [2] 1605). 95) Oxim d. Verbindung $C_{10}H_{10}O_3$ (aus Isosafrol). Sm. 89° (B. 36, 3580
 - C. 1903 [2] 1363]. *1) Benzoylamidoacetylharnstoff (J. pr. [2] 70, 241 C. 1904 [2] 1462).
- $\mathbf{C}_{10}\mathbf{H}_{11}\mathbf{O}_{8}\mathbf{N}_{8}$ 17) 3,5-Diketo-2-Acetyl-4-Methyl-1-Phenyltetrahydro-1,2,4-Triazol. Sm. 94—95° (B. 36, 3151 C. 1903 [2] 1073).
 - 18) Mono[4-Methylphonylamid! d. Oximidomalonaminsäure. Sm. 183°
- u. ger. Zers. (Sec. 83, 55 6. 1903 [1] 73, 441). C₁₀H₁₁O₈Cl *5) 4-Chloracetat d. 3,4-Dioxy-l-Methylbenzol-3-Methyläther.
- (Ar. 240, 639 C. 1903 [1] 24). C₁₀H₁₁O₃Br₆ 6) 3-Methyläther d. 2,5-Dibrom-3,4-Dioxy-1- $[\beta$ -Brom- α -Oxypropyl]-benzol. Sm. 127—128° (A. 329, 27 C. 1903 [2] 1436). C₁₀H₁₁O₄N *2) α -Oxy- γ -Keto- α -[2-Nitrophenyl]butan (o-Nitrophenylmilchsäureketon)
- (D.R.P. 146294 *Ö*. 1903 [2] 1299).
 - 65) Methylenäther d. 6-Nitro-3,4-Dioxy-1-Propylbenzol (Nitrodihydrosafrol). Sm. 36° (Ar. 242, 86 C. 1904 [1] 1007).
 - 66) Aldehyd d. 2-Acetylamido-3,4-Dioxybenzol-3-Methyläther-1-Carbonsäure. Sm. 97° (C. 1903 [2] 31).
 - 67) Methylester d. 3-Acetylamido-4-Oxybenzol-1-Carbonsäure. 198° (A. 325, 320 C. 1903 [1] 770).
 - 68) Dimethylester d. Phenylamin-NN-Dicarbonsäure. Sm. 142-143°
 - (B. 37, 3682 C. 1904 [2] 1495).
 69) β-Oxyāthylester d. Benzoylamidoameisensäure. Sm. 148° (B. 36, 3220 C. 1903 [2] 1056).
 - 70) Acetat d. 5-Nitro-2-Oxy-1,4-Dimethylbenzol. Sm. 72-73° (B. 37,
- D.R.P. 152717 C. 1904 [2] 799).

- 185 --- $C_{10}H_{11}O_4N_3$ 16) 4-Nitro-1, 3-Di[Acetylamido]benzol (D.R.P. 147729 C. 1904 [1] 235). C10H11O5N 41) γ -Keto- α -[4-Nitrophenyl] butan. Sm. 40-41° (B. 37, 1994 \dot{C} . 1904 21 26). 42) Säure (aus d. Amid d. Oxyessig-2-Nitrophenyläthersäure-4-Carbonsäuremethylester). Sm. 191° (A. 325, 338 C. 1903 [1] 771).
 43) Oxim d. Maticosäurealdehyd. Sm. 154° (B. 35, 4358 C. 1903 [1] 331). 44) Aethylester d. α-Oxy-α-[Nitrophenyl]essigsäure. Sm. 49—50° (B. 37, 949 C. 1904 [1] 1218). 45) 3-Aethylester d. 4-Oxybenzol-1-Carbonsäure-3-Amidoameisensäure. Sm. noch nicht bei 280° (A. 325, 323 C. 1903 [1] 770) 46) Aethyl-6-Nitro-2-Methylphenylester d. Kohlensäure. Sm. 32-33° (Am. 32, 21 C. 1904 [2] 696).Aethyl-6-Nitro-3-Methylphenylester d. Kohlensäure. Fl. (Am. 32, 20 C. 1904 [2] 696). 48) Aethyl-2-Nitro-4-Methylphenylester d. Kohlensäure. Sm. 56° (Am. 32, 15 C. 1904 [2] 695). 49) Verbindung (aus d. Glykosaminsaure). Sm. 125° (B. 35, 4014 C. 1903 [1] 390). $C_{10}H_{11}O_5N_3$ 12) Aethylester d. α-[3-Nitrophenyl]harnstoff- β -Carbonsäure. Sm. 188° (Soc. 81, 1569 C. 1903 [1] 157). 13) Aethylester d. α -[4-Nitrophenyl]harnstoff- β -Carbonsäure. Sm. 220° u. Zers. (Soc. 81, 1570 C. 1903 [1] 158). $C_{10}H_{11}O_5Br$ 1) 2-Brom-3, 4, 5-Trioxybenzoltrimethyläther-1-Carbonsäure. Sm.1510 (M. 19, 598). — *II, 1112.
 Gem. Anhydrid d. Essigsäure u. β-Brom-α-Keto-β-Buten-αγ-Dicarbonsäure-α-Aethylester. Fl. (R. 23, 151 C. 1904 [2] 194).
 2,4,6-Trinitro-5-Aethylnitramido-1,3-Dimethylbenzol. Sm. 85° $C_{10}H_{11}O_6Br$ C10H11O8N5 (R. 21, 331 C. 1903 [1] 78). \bullet 30,8 — H 2,8 — \bullet 41,1 — N 25,2 — M. G. 389. C₁₀H₁₁O₁₀N₇ 1) 2,4,6-Trinitro-1,3-Di[Aethylnitramido]benzol. Sm. 165° (R. 21, 326 C. 1903 [1] 80). $C_{10}H_{11}NS$ 10) Allylamid d. Benzolthiocarbonsäure. Sd. 214-215° (B. 37, 878 C. **1904** [1] 1004). 1) 4-oder-5-Brom-1-Methyl-2-[3-Pyridyl]-2, 3-Dihydropyrrol. (HBr, $C_{10}H_{11}N_2Br$ Br₂) (C. r. 137, 862 C. 1904 [1] 104). *2) Aethyläther d. α -Cyanimido- α -Phenylamido- α -Merkaptomethan. $C_{10}H_{11}N_{8}S$ (Aethylcyanamid d. Phenylamidothioameisensäure). Sm. 119-120° (A. 331, 297 C. 1904 [2] 33). 5) α -[α -Cyanäthyl]- β -Phénylthioharnstoff (Bl. [3] 29, 1195 C. 1904 [1] 361). C10H11ClS 1) Verbindung (aus Acetylchlorid u. Trithiodibutolakton) (B. 34, 3405). **–** ***III**, 594. $C_{10}H_{12}ON_2$ 41) α -Methylphenylhydrazon- β -Ketopropan. Sm. 64° (A. 247, 201). — IV, 757. 42) Phenylhydrazid d. Crotonsäure. Sm. 190° (B. 36, 1100 C. 1903 [1] 1140). $C_{10}H_{12}OBr_2$ *2) 3,5-Dibrom-2-Oxy-4-Isopropyl-1-Methylbenzol. Sd. 219—220° (A. **333**, 358 *C.* **1904** [2] 1116). 7) 2, 6-Dibrom-4-Oxy-1-tert. Butylbenzol. Sm. 70-71° (Soc. 83, 330 C. **1903** [1] 876).

8) 2,6-Dibrom-3-Oxy-4-Isopropyl-1-Methylbenzol. Sd. 180—186°₁₇₋₂₀ (M. 24, 70 C. 1903 [1] 767; A. 383, 354 C. 1904 [2] 1116).

9) β -Bromäthyläther d. 5-Brom-4-Oxy-1, 3-Dimethylbenzol. bis 173° (B. 36, 2875 C. 1903 [2] 834).

10) 2,4-Dibrom-l-Keto-3-Methyl-6-Isopropyl-1,4-Dihydrobenzol.

C. 1904 [2] 1316).

*20) 1,3-Di[Acetylamido]benzol. Sm. 192—195° (A. 327, 33 C. 1903 [1] 1336).

*37) α-Phenylhydrazonbuttersäure. Sm. 144—145° (A. 331, 124 C. 1904 [1] 932).

*45) Aethylester d. Benzylidenhydrazidoameisensäure. Sm. 135—136°. Hg, Ag (P. GUTMANN, Dissertat., Heidelberg 1903).

- $\mathbf{C}_{10}\mathbf{H}_{12}\mathbf{O}_{2}\mathbf{N}_{2}$ 76) Methyläther d. α-Acetylamido-α-Phenylimido-α-Oxymethan. Fl. (2HCl, PtCl₄), Ag (C. 1904 [1] 1559). 77) Methyläther d. α-Acetylphenylamido-α-Imido-α-Oxymethan. Sm.
 - 102°. HCl (C. 1904 [1] 1560).
 - 78) 3,6-Diacetyl-2,5-Dimethyl-1,4-Diazin. Sm. 98-99 (A. 325, 195 C. 1903 [1] 647).
 - 79) Methylester d. Methylphenylhydrazonessigsäure. Sm. 158—160°
 - (B. 3^{7} , 3592 C. 1904 [2] 1378). 80) Mono[4-Methylphenyl]diamid d. Malonsäure $+ \frac{1}{2}H_{2}O$. bis 164° u. ger. Zers. (Soc. 83, 38 C. 1903 [1] 441).
- 6) Amid d. 4-Methylphenylhydrazonmethan-α a-Dicarbonsäure. Sm. $C_{10}H_{12}O_2N_4$ 173—174° (B. 37, 4178 C. 1904 [2] 1705).
 - 7) Amid d. 2,4-Dimethylphenylnitrosohydrazonessigsäure (J. pr. [2] 67, 412 *C.* 1903 [1] 1347).
- $C_{10}H_{12}O_2Br_2^*11$) 3-Methyläther d. 3,4-Dioxy-1- $[\alpha\beta$ -Dibrompropyl]benzol. Sm. 95° (A. 329, 9 C. 1903 [2] 1434).
- C10H12O2S *3) α-Merkaptopropionbenzyläthersäure. Sm. 76,5° (H. 42, 356 C. 1904 [2] 979).
 - 7) β -Merkaptopropionbenzyläthersäure. Sm. 81-81,5° (H. 42, 352 C. 1904 [2] 979).
 - 8) 1,2,3,4-Tetrahydronaphtalin-5-Sulfinsäure. Zers. bei 103—105° (Soc. 85, 757 C. 1904 [2] 449).
- 3) Diäthyläther d. 2,5-Dimerkapto-1,4-Benzochinon. Sm. 1590 (A. $C_{10}H_{12}O_2S_2$ 336, 158 C. 1904 [2] 1300).
- $C_{10}H_{12}O_8N_2$ *6) Methyläther d. syn-4-Oxy-I-[$\alpha\beta$ -Dioximidopropyl]benzol. Sm. 121 ° (A. 332, 318 C. 1904 [2] 651).
 - *7) Methyläther d. anti-4-Oxy-1- $[\alpha\beta$ -Dioximidopropyl] benzol. Sm. 206° u. Zers. (B. 36, 3021 C. 1903 [2] 1002; A. 329, 268 C. 1904 11 32).
 - *53) 5-Nitro-2,4-Dimethylphenylamid d. Essigsäure. Sm. 159° (G. 33 [2] 283 *C.* 1904 [1] 265).
 - *75) 2-Amidd. Benzol-1-Carbonsäure-2-Amidoessigsäure-1-Methylester. Sm. 195° (D.R.P. 137846 C. 1903 [1] 108).
 - 87) Nitrosit d. δ-Phenyl-α-Buten. Zers. bei 110° (B. 36, 3001 C. 1903 [2] 949).
 - 88) Acetyl-4-Amidophenylamidoessigsäure (D.R.P. 152012 C. 1904 [2] 70).
 - 89) Methylester d. Phenylhydrazonoxyessigmethyläthersäure. Sm.
 - 123—124° (126°) (A. 306, 15; Soc. 85, 987 C. 1904 [2] 830). 90) Methylester d. β -Phenylureïdoessigsäure. Sm. 143° (J. pr. [2] 70, 246 C. 1904 [2] 1463).
 - 91) Aethylester d. α -[2-Oxybenzyliden]hydrazin- β -Carbonsäure. Sm.
 - 127° (P. Gutmann, Dissert., Heidelberg 1903). 92) Aethylester d. α-Benzoylhydrazin-β-Carbonsäure. Sm. 126° (P. Gut-MANN, Dissert., Heidelberg 1903).
 - 93) N-Acetat d. β-Phenylamido-α-Oximido-α-Oxyäthan. Sm. 107° (Soc. 81, 1574 C. 1903 [1] 158).
 94) 3-Amid d. 3-Carboxylphenylamidoameisensäure. Sm. 159—160°
 - (C. 1904 [2] 102).
 - 95) Aethoxylamid d. Phenyloxaminsäure. Sm. 176° (Soc. 81, 1567 C. 1903 [1] 157).
 - 96) Verbindung (aus Bernsteinsäureanhydrid u. 1,3-Diamidobenzol). Sm. 166° (183°) (A. 327, 39 C. 1903 [1] 1336).
 - 97) Verbindung (aus Bernsteinsäureanhydrid u. 1,4-Diamidobenzol). Sm. 183° (A. 327, 39 C. 1903 [1] 1336).
- Amid d. 2-Methoxylphenylhydrazonmethan-αα-Dicarbonsäure.
 Sm. 143° (B. 37, 4179 C. 1904 [2] 1705). $C_{10}H_{12}O_3N_4$
 - 4) Acetylhydrazid-Phenylhydrazid d. Oxalsäure. Sm. 220-221° (B.
- $\frac{37,\ 2426\ \textit{C}.\ 1904\ [2]\ 341).}{\text{C}_{10}\text{H}_{12}\text{O}_{8}\text{Br}_{2}\ ^{*}5)\ 3\text{-Methyläther}\ d.\ 5\text{-Brom}\ -3,4\text{-Dioxy-1-}[\beta\text{-Brom-}\alpha\text{-Oxypropyl}]\ -}$ benzol. Sm. 144° (A. 329, 18 C. 1903 [2] 1435).
- $C_{10}H_{12}O_8S$ α-Merkapto-α-Oxypropion-S-Benzyläthersäure. Sm. 82° (B. 36, 299) C. 1903 [1] 499).

- C10H12O8S 7) 1,2,3,4-Tetrahydronaphtalin-5-Sulfonsäure. Ba + 3 H₂O (Soc. 85, 756 C. 1904 [2] 449).
- $C_{10}H_{12}O_4N_2*22$ 1,4-Phenylendi[Amidoessigsäure]. Sm. 233—235° u. Zers. (D.R.P. 145062 C. 1903 [2] 1036).
 - *43) β -[β -Phenylure ido]- α -Oxypropions äure. Sm. 180° (B. 37, 338 C. 1904 [1] 647).
 - 45) Methylenäther d. 6-Nitro-2-Amido-3, 4-Dioxy-1-Propylbenzol. Sm. 76,5° (Ar. 242, 91 C. 1904 [1] 1007).
 - 46) 4-Methyläther d. α -Oximido- β -Nitro- α -[4-Oxyphenyl]propan. Sm. 87° (A. 329, 262 C. 1904 [1] 32).
 - 47) β -Aethyläther d. β -Imido- $\alpha\beta$ -Dioxy- α -[2-Nitrophenyl]äthan. HCl (B. 37, 949 C. 1904 [1] 1217).
 - 48) $\alpha \alpha$ -Di[5-Keto-3-Methyl-4, 5-Dihydro-4-Isoxazolyl]äthan. Sm. 157°
 - u. Zers. (A. 332, 20 C. 1904 [1] 1565).
 49) Aethylester d. 3-Nitro-4-Methylamidobenzol-1-Carbonsäure. Sm. 101—102° (B. 37, 1030 C. 1904 [1] 1207).
 - 50) Monoäthylester d. 3,6-Dimethyl-1,2-Diazin-4,5-Dicarbonsäure. Sm. 155-156°. K (B. 36, 508 C. 1903 [1] 654).
 - 51) Amid d. Oxyessig-2-Amidophenyläthersäure-4-Carbonsäuremethylester. Sm. 178° (A. 325, 337 C. 1903 [1] 771).
 - 52) Amid d. 3,4-Dioxybenzoldimethyläther-1,2-Dicarbonsäure + H₂O? Sm. 203—205° (221—223°) (M. 24, 388 C. 1903 [2] 493).
- 6) Aethylester d. 2,6-Diketo-3,7-Dimethylpurin-8-Carbonsäure. Sm. $C_{10}H_{12}O_4N_4$ 300° (D.R.P. 153121 C. 1904 [2] 626).
- $C_{10}H_{12}O_4S$ 13) Benzylidenacetonhydrosulfonsäure. Na, K, Ba (B. 37, 4043 C. 1904 [2] 1648).
 - 14) β -[4-Methylphenyl]sulfonpropionsäure. Sm. 110—113° (Am. 31, 175) C. 1904 [1] 876).
- $C_{10}H_{12}O_5N_2$ *2) 3,5-Dinitro-2-Oxy-4-Isopropyl-1-Methylbenzol. Sm. 116—117° (A. **333**, 359 *C*. **1904** [2] 1116).
- 2) β -Acetyl- $\alpha\alpha'$ -Dimethylisoallitursäure. Sm. 193—194° (A. 333, 127 $C_{10}H_{12}O_5N_4$ C. 1904 [2] 894).
- $C_{10}H_{12}O_6N_2$ *1) Diäthyläther d. 4,6-Dinitro-1,3-Dioxybenzol. Sm. 133° (130°) (R. 23, 123 C. 1904 [2] 206; Am. 32, 303 C. 1904 [2] 1385).
 - *7) P-Dinitro-1-Isopropyl-P-Dihydrobenzol-4-Carbonsäure (M. 25, 465
 - C. 1904 [2] 333; B. 37, 2431 C. 1904 [2] 334).
 Dimethyläther d. β-Nitro-αα-Dioxy-α-[4-Nitrophenyl]äthan. Sm. 112,5°; Zers. oberh. 200° (A. 325, 17 C. 1903 [1] 287).
 - δε-Diimido-βη-Diketooktan-γζ-Dicarbonsäure. Sm. 230° (A. 332, 141 C. 1904 [2] 191).
 - 10) Aethylester d. Tetronsäureazoacetessigsäure. Sm. 128° (A. 325, 179 C. 1903 [1] 646).
 - 11) 3 Aethylester 5 Glykolester d. 4 Methylpyrazol 3,5 Dicarbonsäure. Sm. 181º (A. 325, 180 C. 1903 [1] 646).
- 6) 2,4,6-Trinitro-5-Aethylamido-1,3-Dimethylbenzol. Sm. 1220 (R. 21, $C_{10}H_{12}O_6N_4$ 331 *C.* **1903** [1] 78).
- 2) 8-Brom-5-Amido-1, 2, 3, 4-Tetrahydronaphtalin. Sm. 42°. HCl (Soc. $C_{10}H_{12}NBr$ 85, 745 C. 1904 [2] 447).
 3) 5-Brom-6-Amido-1,2,3,4-Tetrahydronaphtalin. Sm. 52,5° (Soc. 85,
 - 731 C. 1904 [2] 116, 339). 4) 8-Brom-6-Amido-1,2,3,4-Tetrahydronaphtalin. Sm. 52° (Soc. 85,
 - 731 C. 1904 [2] 116, 339).
- 2) $\alpha \beta$ Dichlorathyl 4 Aethylphenyljodoniumjodid. Zers. bei 69° (4. 327, 297 C. 1903 [2] 352). $\mathbf{C}_{10}\mathbf{H}_{12}\mathbf{Cl}_{2}\mathbf{J}_{2}$ αβ-Dichloräthyl-4-Aethylphenyljodoniumchlorid. Zers. bei 134°.
- C₁₀H₁₂Cl₃J $2 + \text{HgCl}_2$, $2 + \text{PtCl}_4 + 2\text{H}_2\text{O}$ (A. 327, 297 C. 1903 [2] 352). C₁₀H₁₈ON *26) anti-2,4,6-Trimethylbenzaldoxim. Sm. 124° (B. 36, 331 C. 1903
 - [1] 576). *27) syn-2, 4, 6-Trimethylbenzaldoxim. Sm. 180-181 (B. 36, 330 C. 1903)
 - [1] 576). *57) Aethylphenylamid d. Essigsäure. Sm. 55° (B. 35, 4188 C. 1903) [1] 143).
 - *91) 2 Methylbenzimidoäthyläther. Sd. 106-1180 20-25 (Soc. 83, 770 C. 1903 [2] 200, 437).

- $C_{10}H_{13}ON$ *102) Propylamid d. Benzolcarbonsäure. Sm. 83° (C. r. 135, 973 C. 1903 [1] 232).
 - 103) Methyläther d. α Aethylimido- α Oxy- α -Phenylmethan. Sd. 209 bis 212 $^{0}_{760}$ (Soc. 83, 323 C. 1903 [1] 580, 876).
 - 104) Aethyläther d. α -Methylimido- α -Oxy- α -Phenylmethan. Sd. 215° (Soc. 83, 325 C. 1903 [1] 581, 876).
 - 105) isom. anti-4-Isopropylbenzaldoxim. Sm. 35° (B. 37, 3044 C. 1904 [2] 1215).
 - 106) Aldehyd d. 6-Aethylamido-I-Methylbenzol-3-Carbonsäure, Sm. 69,5 ° (B. 37, 863 C. 1904 [1] 1207).
 - 107) Aldehyd d. 4-Methyläthylamidobenzol-1-Carbonsäure. Sm. 14°; Sd. 180°, (B. 37, 862 C. 1904 [1] 1206).
- $C_{10}H_{13}ON_3$ *6) α -Semicarbazon- α -Phenylpropan. Sm. 178—179° (A. 325, 147 C. 1903 [1] 644).
 - β-Semicarbazon α-Phenylpropan. Sm. 188—189° (A. 325, 146 C. 1903 [1] 644).
 - 12) α-Semicarbazon-β-Phenylpropan. Sm. 156—157° (C. r. 137, 1261
 C. 1904 [1] 445). *III, 41.
 - 13) I-Semicarbazonmethyl-4-Aethylbenzol. Sm. 199° (C. r. 136, 558
 C. 1903 [1] 832).
 - 14) Amid d. 2,4-Dimethylhydrazonessigsäure. Sm. 184° (J. pr. [2] 67, 410 C. 1903 [1] 1347).
- C₁₀H₁₈OCl 4) γ -Chlor- β -Oxy- α -Phenyl- β -Methylpropan. Sd. 155 $^{\circ}_{25}$ (C. r. 138, 768 C. 1904 [1] 1196).
- $C_{10}H_{13}OBr$ 14) Bromumbellulon. Sd. $140-145^{\circ}_{20}$ (Soc. 85, 642 C. 1904 [1] 1607 C. 1904 [2] 330).
- $C_{10}H_{18}O_2N$ *49) γ -Amido- γ -Phenylbuttersäure. Sm. 216°. HCl (B. 36, 174 C. 1903) [1] 445).
 - *66) İnn. Anhydrid d. 4-Trimethylamidobenzol-1-Carbonsäure + H₂O. Sm. 255° (wasserfrei) (B. 37, 414 C. 1904 [1] 943).
 - *67) N Anhydrid d. Dimethylphenylammoniumessigsäure + H.O. Sm. 123-124°. HCl; (2HCl, PtCl), Pikrat (A. 326, 326 C. 1903 [1] 1089; B. 37, 415 C. 1904 [1] 943; B. 37, 1860 C. 1904 [1] 1487).
 - *73) Methylester d. 4-Dimethylamidobenzol-1-Carbonsäure. Sm. 102" (B. 37, 415 C. 1904 [1] 943).
 - *81) Aethylester d. Methylphenylamidoameisensäure. Sd. 127—128° (B. 36, 2477 C. 1903 [2] 559).
 - *124) Aethylester d. 2,6-Dimethylpyridin-3-Carbonsäure. Sd. 140—142° (B. 36, 2857 C. 1903 [2] 1129).
 - 136) Methylenäther d. 6-Amido-3,4-Dioxy-1-Propylbenzol. Sm. 24°; Sd. 156°_{11.5}. HCl (Ar. 242, 89 C. 1904 [1] 1007).
 - 137) 4-Methyläther d. β -Oximido- α -[4-Oxyphenyl] propan. Sm. 65-66°; Sd. 160-170°. HCl (4. 332, 322 C. 1904 [2] 651).
 - 138) 2-Methyläther d. α -Oximido- α -[2-Oxy-4-Methylphenyl]äthan. Sm. 136° (\mathcal{O} . 1904 [1] 1597).
 - 139) Oxim d. Rheosmin (C. 1903 [1] 883).
 - 140) Inn. Anhydrid d. 2-Trimethylamidobenzol-1-Carbonsäure + ½ H₂O (Anthranilsäurebetaïn). Sm. 224° (227° wasserfrei). (HCl, AuCl_B), HJ + H₂O (B. 37° 413° C. 1904 [1] 042)
 - HJ + H₂O (B. 37, 413 C. 1904 [1] 943).

 141) Methylester d. α-Amido-β-Phenylpropionsäure. Sd. 141°₁₂. HCl (B. 37, 1267 C. 1904 [1] 1334).
 - 142) Methylester d. Methylphenylamidoessigsäure. Sd. 140-141 (B. 37, 416 C. 1904 [1] 943).
 - 143) Methylester d. 2-Dimethylamidobenzol-l-Carbonsäure. Sd. 160 bis 161°₉₈. HJ (B. 37, 408 C. 1904 [1] 942).
 - 144) Acetat d. 4-Dimethylamido-I-Oxybenzol. Sm. 78-79° (A. 334, 309 C. 1904 [2] 986).
 - 145) Methylamid d. 3-Oxybenzoläthyläther-1-Carbonsäure. Sm. 64° (A. 329, 70 C. 1903 [2] 1440).
 - 146) Piperidid d. Furan-2-Carbonsäure. Sm. 58° (B. 37, 2953 C. 1904 [2] 993).
- $C_{10}H_{13}O_2N_3$ 29) Aethyläther d. α -Imido- β -Phenylnitrosamido- α -Oxyäthan. Sm. 98° (B. 36, 4304 C. 1904 [1] 447).

- $C_{i_0}H_{i_3}O_2N_3$ 30) β -[4-Nitrophenyl]hydrazonbutan. Sm. 128° (119,5—120°) (R. 22, 435) C. 1904 [1] 15; B. 37, 1793 C. 1904 [1] 1612).
 - 31) Methyläther d. α -Semicarbazon- α -[2-Oxyphenyl]äthan. bis 182° (B. 36, 3589 C. 1903 [2] 1365).
 - 32) Methyläther d. α-Semicarbazon-α-[3-Oxyphenyl]äthan. Sm. 181 bis 183° (B. 36, 3591 C. 1903 [2] 1366).
 - 33) Amid d. α-[Methyl-4-Nitrosophenyl]amidopropionsäure. Sm. 159,5° (B. **36**, 761 C. **1903** [1] 963).
 - 34) Hydrazid d. α-Benzoylamidopropionsäure. Sm. 105-107° (J. pr. [2] 70, 142 C. 1904 [2] 1394).
- C₁₀H₁₈O₂Cl *1) 6-Chlor-2,5-Dioxy-4-Isopropyl-1-Methylbenzol. Sm. 70° (A. 336, 27 C. 1904 [2] 1467).
- 63) γ -Keto- α -Oxy- α -[2-Hydroxylamidophenyl] butan. Sm. 78° (D. R.P. $\mathbf{C}_{10}\mathbf{H}_{18}\mathbf{O}_{8}\mathbf{N}$ 89978). **—** ***III**, *119.*
 - 64) Aethylamidomethyl-3,4-Dioxyphenylketon. Sm. 185° u. Zers. HCl
 - (D.R.P. 152814 C. 1904 [2] 271; B. 37, 4153 C. 1904 [2] 1744). 65) Diäthyläther d. 2-Oximido-5-Oxy-1-Keto-1, 2-Dihydrobenzol.
 - 55) Diathylather d. 2-Oximido-5-Oxy-1-Reto-1, 2-Dihydrobenzol. Sm. 89,5—91,5° (J. pr. [2] 70, 323 C. 1904 [2] 1540).
 66) Epinephrin + ¹/2 H₂O. HCl, HBr, H₂SO₄, Pikrat (H. 28, 325; B. 36, 1839 C. 1903 [2] 303; B. 37, 368 C. 1904 [1] 677). *III, 667.
 67) Methyldamascenin-S. HCl + H₂O (Ar. 242, 313 C. 1904 [2] 457).
 68) β-oder-γ-Oxamido-γ-Phenylbuttersäure. Sm. 108° (B. 36, 4316).

 - C. 1904 [1] 449).
 - 69) α -Oxamido- β -Phenylisobuttersäure (B. 36, 4314 C. 1904 [1] 449).
 - 70) 6-Oxy-2-Methyl-5-Propylpyridin-6-Aethyläther-3-Carbonsäure.
 - Sm. 300° u. Zers. (G. 33 [2] 166 C. 1903 [2] 1283). 71) Methylester d. 3-Dimethylamido-4-Oxybenzol-1-Carbonsäure. Sm. 59,5—60° (A. 325, 329 C. 1903 [1] 770).
 - 72) Aethylester d. 2-Cyan-3-Keto-1-Methyl-R-Pentamethylen-2-Carbonsäure. Sm. 185° (C. 1903 [2] 1425).
 - 73) Aethylester d. 2-Oxy-3-Methylphenylamidoameisensäure. Sm. 74—76° (Am. 32, 22 C. 1904 [2] 696).
 - 74) Aethylester d. 6-Oxy-3-Methylphenylamidoameisensäure. Sm. 1010 (Am. 32, 16 C. 1904 [2] 696).
 - 75) Aethylester d. 2-Oxy-4-Methylphenylamidoameisensäure. Sm. 95° (Am. 32, 20 C. 1904 [2] 696).
 - 76) Aethyl-6-Amido-2-Methylphenylester d. Kohlensäure. (2 HCl, PtCl₄) (Am. 31, 492 C. 1904 [2] 94; Am. 32, 21 C. 1904 [2] 696).
 - 77) Aethyl-6-Amido-3-Methylphenylester d. Kohlensäure.
 - $(2 \text{ HCl}, \text{ PtCl}_4)$ (Am. 31, 490 C. 1904 [2] 94; Am. 32, 20 C. 1904 [2] 696).78) Aethyl-2-Amido-4-Methylphenylester d. Kohlensäure.
 - (2 HCl, PtCl₄) (Am. 31, 485 C. 1904 [2] 94; Am. 32, 18 C. 1904 [2] 696). 79) Monoacetat d. 2- $[\beta\beta'$ -Dioxyisopropyl] pyridin. Fl. (2 HCl, PtCl₄+H₂O)
 - (B. **37**, 741 C. **1904** [1] 1089). 80) Verbindung (aus Damasceninjodmethylat). Sm. 118-119° (Ar. 242, 319
 - C. 1904 [2] 457).
- 7) Methyläther d. β-[4-Nitrophenyl]hydrazon-α-Oxypropan. Sm. 110-111° (G. 33 [1] 322 C. 1903 [2] 281).
 8) 5-Nitro-2-Oxy-1, 2, 3-Trimethyl-2, 3-Dihydrobenzimidazol. Sm. 175° C10 H18 O8 N3
 - (B. **36**, 3969 C. **1904** [1] 177). 9) ?-Nitro-2-Oxy-1,3,5-Trimethyl-2,3-Dihydrobenzimidazol. Sm.
- 150° u. Zers. (B. 36, 3971 C. 1904 [1] 178). C 47.8 - H 5.2 - O 19.1 - N 27.9 - M. G. 251.C10H18O8N5
- 1) 8-Acetylamido-2, 6-Diketo-1, 3, 7-Trimethylpurin. Sm. 270 ° (D. R. P. 139 960 C. **1903** [1] 859).
- 29) 4-Methyläther d. 6-Nitro-3, 4-Dioxy-1-Propylbenzol. Sm. 520 (Ar. $C_{10}H_{13}O_4N$ **242**, 93 *C*. **1904** [1] 1007).
 - 30) Dimethyläther d. β -Nitro- $\alpha\alpha$ -Dioxy- α -Phenyläthan. Sm. 55,5—56° (A. 325, 10 C. 1903 [1] 287).
 - 31) β Oxyathylamidomethyl 3, 4 Dioxyphenylketon. HCl (D.R.P. 152814 C. 1904 [2] 271).
 - 32) 2,4,6-Trimethyläther d. 2,4,6-Trioxybenzol-1-Oximidomethylbenzol. Sm. 201-203° (M. 24, 868 C. 1904 [1] 368).

 $C_{10}H_{13}O_4N$ 33) Aethylester d. 6-Amido-3,5-Dioxy-l-Methylbenzol-2-Carbonsäure. HCl (B. 37, 1419 C. 1904 [1] 1417).

34) Aethylester d. α -[2-Furanoyl] amidopropionsäure. Sm. 71—72° (B. 37, 2958 C. 1904 [2] 993).

C 47,0 - H 5,1 - O 31,4 - N 16,5 - M. G. 255.C10H13O5N8

1) Aethyläther d. 3, 5-Dinitro-4-Methylamido-2-Oxy-1-Methylbenzol. Sm. 160° (J. pr. [2] 67, 559 C. 1903 [2] 240).

 $C_{10}H_{13}O_5N_5$

C 42,4 — H 4,6 — O 28,3 — N 24,7 — M. G. 283.

1) Vernin (oder $C_{10}H_{20}O_8N_8$) (H. 41, 462 C. 1904 [1] 1656).

2) γs -Lakton d. ζ -Chlor-s-Oxy- β -Ketohexan- $\alpha \gamma$ -Dicarbonsäure- α -Aethylester. Fl. Cu (C. r. 136, 435 C. 1903 [1] 698).

C 40,1 — H 4,3 — O 32,1 — N 23,4 — M. G. 299. C10H18O5Cl

C₁₀H₁₈O₆N₆ C 40,1 — H 4,3 — U 52,1 — N 25,4 — M. G. 25.6 1) 2,4,6-Trinitro-1,3-Di-[Aethylamido] benzol. Sm. 144° (R. 21, 325) C. 1903 [1] 80). 2) 3,5-Dinitro-4-Methylnitramido-2-Dimethylamido-1-Methylbenzol.

Sm. 126—127° (*J. pr.* [2] 67, 527 *C.* 1903 [2] 239).
7) Phenylamid d. Thiobuttersäure. Sm. 32—33° (*B.* 36, 588 *C.* 1903

C10H18NS [1] 830). $C_{10}H_{13}NS_{2}$

8) Methylester d. Aethylphenylamidodithioameisensäure. Sm. 52 bis 53° (J. pr. [2] 67, 287 G. 1903 [1] 1306). 9) Aethylester d. Methylphenylamidodithioameisensäure. Sm. 94 bis

95,5° (J. pr. [2] 67, 286 C. 1903 [1] 1306). 5) Jodnikotin (C. 1903 [2] 123).

C10H18N2J

2) Aethyläther d. α -[β -Phenylthioureïdo]- α -Imido- α -Merkaptomethan. Sm. 114° (Am. 30, 173 C. 1903 [2] 871). $C_{10}H_{13}N_3S_2$

1) β -Methyl- β -[Methylmerkaptophenylimido] methylhydrazidodithio- $C_{10}H_{18}N_8S_8$ ameisensäure (B. 37, 2323 C. 1904 [2] 312).

C₁₀H₁₄ON₂ *5) 4-Nitroso-1-Diäthylamidopenzol (c. 160% [2] 0107. *11) 4-Acetylamido-1-Dimethylamidobenzol. Sm. 129° (A. 334, 311 ().

*60) Amid d. α-Methylphenylamidopropionsäure. Sm. 47,5° (B. 36, 760) C. 1903 [1] 962).

62) 2-Methylnitrosamido-1,3,5-Trimethylbenzol. Fl. (A. 327, 110) C. 1903 [1] 1213).

63) Aethyläther d. α-Imido-β-Phenylamido-α-Oxyäthan. Sd. 134°₁₂₀. 2HCl (B. 36, 4303 C. 1904 [1] 447).

64) 4-Aethylamido-3-Methylbenzaldóxim. Sm. 82° (B. 37, 864 C. 1904 1] 1207).

65) Methyläther d. β -Phenylhydrazon- α -Oxypropan. Sd. 186 $^{o}_{24}$ u. Zers. (G. 33 [1] 320 C. 1903 [2] 281).

66) Amid d. Aethylphenylamidoessigsäure. Sm. 114° (D.R.P. 142559) C. 1903 [2] 81).

 $C_{10}H_{14}NBr_2$ *2) $\alpha\beta$ -Dibromcampher. Sm. 112—114° (B. 37, 2078 C. 1904 [2] 18). 5) Dibromdihydroumbellulon. Fl. (Soc. 85, 641 C. 1904 [1] 1607

C. 1904 [2] 329).
6) isom. Dibromdihydroumbellulon. Sm. 119-119,5° (Soc. 85, 643) C. 1904 [1] 1607 C. 1904 [2] 330).

1) o,o-Dijodcampher. Sm. 108—109° (B. 37, 2165, 2182 C. 1904 [2] $C_{10}H_{14}OJ_2$

 $C_{10}H_{14}O_{2}N_{2}*34$) Aethylester d. α -Phenylhydrazidoessigsäure. HCl, Oxalat (B. 36, 3883 C. 1904 [1] 27).

*35) Aethylester d. β -Phenylhydrazidoessigsäure. Oxalat (B. 36, 3881 C. **1904** [1] 26).

52) Methylenäther d. 2,6-Diamido-3,4-Dioxy-1-Propylbenzol. Sm. 72". HCl (Ar. 242, 91 C. 1904 [1] 1007).
53) Peroxyd d. Campherdioxim. Sm. 144,5° (Soc. 83, 525 C. 1903 [1]

1136, 1353).

54) 3,6-Di[Methylamido]-2,5-Dimethyl-1,4-Benzochinon. Sm. 227" (B. 37, 2388 C. 1904 [2] 308).

55) Amid d. 2-Oxyphenylamidoessigäthyläthersäure. Sm. 161-162" (Bl. [3] 29, 967 C. 1903 [2] 1118).

56) Amid d. 4-Oxyphenylamidoessigäthyläthersäure. Sm. 145-1467 (Bl. [3] 29, 967 C. 1903 [2] 1118).

- C₁₀H₁₄O₂N₄ 10) Diamid d. 1,3-Phenylendi[Amidoessigsäure]. Sm. 196—197° (Bl. [3] **29,** 967 *C.* **1903** [2] 1118). 11) Diamid d. 1,4-Phenylendi [Amidoessigsäure]. Sm. 250—252° u. Zers. (Bl. [3] 29, 967 C. 1903 [2] 1118). C₁₀H₁₄O₂Br₄ 1) Lakton d. $\alpha\beta\zeta\eta$ -Tetrabrom- δ -Oxyheptan- δ -[Aethyl- β -Carbonsäure]. Sm. 125—127° (C. 1904 [1] 1330). 1) 2,5-Diäthyläther d. 2,5-Dimerkapto-1,4-Dioxybenzol. Sm. 49 bis 50° (A. 336, 158 C. 1904 [2] 1300). $\mathbf{C_{10}H_{14}O_{2}S_{2}}$ $C_{10}H_{14}O_8N_2$ 7) Dimethyläther d. 2-Acetylamido-5-Amido-1,4-Dioxybenzol (D.R.P. 139 286 C. 1903 [1] 679).

 8) Aethylester d. 3 - Acetyl - 1, 4 - Dimethylpyrazol - 5 - Carbonsäure.

 Sm. 80—81° (B. 36, 1130 C. 1903 [1] 1138). C₁₀H₁₄O₈S *25) 1,2,3,5-Tetramethylbenzol-4-Sulfonsäure. Sm. 79-80° (B. 37, 1717 C. 1904 [1] 1489). $\mathbf{C_{10}H_{14}O_{4}N_{2}}$ 5) α -Cyan- α -Oxyessig-[β -Cyan- α -Aethoxylbutyl]äthersäure. Sm. 153° u. Zers. (C. 1904 [1] 159). 6) Aethylester d. α -Cyan- α -Oxyessig-[β -Cyan- α -Aethoxyläthyl] äthersäure. Sm. 53°; Sd. 235°₂₀ u. Zers. (C. 1904 [1] 159). 7) Monoäthylester d. 3,6-Dimethyl-4,5-Dihydro-1,2-Diazin-4,5-Dicarbonsaure. Sm. 205-207 K (B. 35, 4313 C. 1903 [1] 336; B. 36, 502 C. 1903 [1] 654). 8) Verbindung (aus 1-Nitrocamphen). Sm. 123° (Soc. 85, 327 C. 1904 [1] 807, 1440). 3) 3,5-Dinitro-2-Dimethylamido-4-Methylamido-1-Methylbenzol. $C_{10}H_{14}O_4N_4$ Sm. 115° (J. pr. [2] 67, 565 C. 1903 [2] 241). 4) Dihydrazid d. 3,4-Dioxybenzoldimethyläther-1,2-Dicarbonsäure. 1026.*7) 3 - Oxy-4-Isopropyl-1-Methylbenzol-6-Sulfonsäure. Salze siehe $C_{10}H_{14}O_4S$ (A. 328, 141 C. 1903 [2] 991). 17) 4-Oxy-1-Aethylbenzoläthyläther-?-Sulfonsäure. Sm. 82-840 (B. 36, 3594 C. 1903 [2] 1366). 3) α -Aethylsulfon - α -Phenylsulfonäthan. Sm. 97-99° (B. 36, 303) C10H14O4S, C. 1903 [1] 500). 4) α-Aethylsulfon-α-Benzylsulfonmethan. Sm. 172-1740 (B. 36, 300 C. 1903 [1] 500). $C_{10}H_{14}O_5N_2$ 4) Verbindung (aus 1-Nitrocamphen). Sm. 85-86°. NH4, Cu, Ag (Soc. 85, 330 C. 1904 [1] 807, 1440).
 1) Tetramethylester d. Dimethylsulfid-ααββ-Tetracarbonsäure. Sm. 122° (B. 36, 3724 C. 1903 [2] 1416). C₁₀H₁₄O₈S 1) Tetramethylester d. Trithiodimalonsäure. Sm. 167° (B. 36, 3722 C10H14O8S8 C. 1903 [2] 1416). 13) Methyläther d. α-Imido-α-[Methyl-4-Methylphenyl]amido-α-Merkaptomethan. Sm. 190-191° (Am. 30, 175 C. 1903 [2] 872).
 *30) Pseudoephedrin (Isoephedrin). Sm. 117°. HCl, (HCl, AuCl₃) (Ar. 242, $C_{10}H_{14}N_{2}S$ $C_{10}H_{15}ON$ 380 C. 1904 [2] 508). *40) Ephedrin (Ar. 242, 380 C. 1904 [2] 508). C₁₀H₁₅ON₃ 8) α -Amido- β -Aethyl- α -Benzylharnstoff. Fl. (B. 37, 2325 C. 1904 [2] 312). 9) β -Nitroso- $\alpha\beta$ -Diäthyl- α -Phenylhydrazin. Fl. (C. 1903 [1] 1128; B. 35, 4187 C. 1903 [1] 143).

 10) Amid d. 4-Dimethylamidophenylamidoessigsäure. Sm. 159—160° (Bl. [3] 29, 968 C. 1903 [2] 1118).
 *2) α-Chloreampher. Sm. 92 (C. 1903 [2] 373). $C_{10}H_{15}OCl$ 11) Chlorid d. Pulegensäure (A. 327, 128 C. 1903 [1] 1412).
 *2) o-Bromcampher. Sm. 76° (B. 36, 668 C. 1903 [1] 771).
 11) 1-α-Bromcampher. Sm. 76° (Soc. 79, 80). — *III, 371.
 12) Bromdihydroumbellulon. Sm. 58—59° (Soc. 85, 644 C. 1904 [1] 1608; C10H15OBr
- C. 1904 [2] 330). *1) o-Jodeampher. Sm. 42—43° (B. 37, 2168, 2182 C. 1904 [2] 222).
 *4) Nitro-a-Phellandren. Sd. 130—134°₁₁ (A. 336, 30 C. 1904 [2] 1468).
 *5) Nitropinen (A. 336, 7 C. 1904 [2] 1466).
 *6) Oximidocampher. 2 + 3 HgNO₃, 2 + AgNO₃ (C. r. 136, 1223 C. 1903 [2] 116; C. 1903 [2] 878; Soc. 85, 902 C. 1904 [2] 596). $C_{10}H_{15}OJ$ $C_{10}H_{15}O_{2}N$

C₁₀H₁₅O₂N *21) Imid d. Camphersäure. Sm. 248-249 (Ph. Ch. 42, 703 C. 1903 [1] 757; A. 328, 342 C. 1903 [2] 1124). 32) Nitro- β -Phellandren. Fl. (\mathring{G} . 16, 227; \mathring{A} . 336, 44 \mathring{G} . 1904 [2] 1468). - III, 33) isom. Oximidocampher. Sm. 114° (Soc. 83, 534 C. 1903 [1] 1136, 1353; Soc. 85, 904 C. 1904 [2] 597). 34) Aethylester d. 1,2,5-Trimethylpyrrol-3-Carbonsäure. Sm. 48°; Sd. 282—283°₇₄₈ (C. 1903 [2] 1281). 35) Imid d. i-Camphersäure. Sm. 249° (Am. 28, 484 C. 1903 [1] 329). 9) 2, 6-Diketo-4-[α-Bromisopropyl]-l-Methylhexahydrobenzol. $C_{10}H_{15}O_2Br$ 135° (A. 330, 271 C. 1904 [1] 948). 1) δ-Jod-αζ-Heptadiën-δ-[Aethyl-β-Carbonsäure] (γ-Jod-γγ-Diallylbutter- $C_{10}H_{15}O_{2}J$ Fl. (O. 1904 [1] 1330). Sin. 96,5—97,5° (C. 1904 [1] 282). 28) tert. Nitrofenchon. C10H15O8N 29) sec. Nitrofenchon. Sm. 86-87° (C. 1904 [1] 282). 30) Nitropulegon. Sm. 1230 (C. 1904 [1] 282). 31) 5-Oxy-5-Cyan-1,3-Dimethylhexahydrobenzol-1-Carbonsäure + 2H₂O? Sm. 202,5° (B. 37, 4063 C. 1904 [2] 1650).
32) Amid d. i-Camphansäure. Sm. 196° (Am. 28, 482 C. 1903 [1] 329). 4) 1-Amid d. 3,6-Dimethyl-1,4-Dihydro-1,2-Diazin-1,5-Dicarbonsäure-C10H15O8N8 5-Aethylester. Sm. 230° (A. 331, 315 C. 1904 [2] 46). 5) Verbindung (aus Anemonin). Sm. 68-69° (Ar. 230, 204). - *III, 155. C 47.4 - H 5.9 - O 19.0 - N 27.7 - M. G. 253.C10H15O8N5 5) lpha-Oxyisopropyl-lpha-Oxybenzylunterphosphorige Säure. Ag ($\mathcal C$. 1904 $C_{10}H_{15}O_4P$ [2] 1709). 6) Säure (aus Acetaldehyd). Sm. 192° (C. r. 138, 1708 C. 1904 [2] 423).
7) Säure (aus Aceton). Sm. 182° (C. r. 138, 1708 C. 1904 [2] 422).
C 42,1 — H 5,2 — O 28,1 — N 24,6 — M. G. 285. $C_{10}H_{15}O_5N_5$ 1) Aethylester d. Diazoacetyldi[Amidoacetyl]amidoessigsäure. Sm. 159° u. Zers. (B. 37, 1295 C. 1904 [1] 1336). C 43,9 - H 5,5 - O 35,2 - N 15,4 - M. G. 273C₁₀H₁₅O₆N₃ 1) 3,4,6-Trinitro-5-Methyl-2-Isopropyl-1,2,3,4-Tetrahydrobenzol. Sm. 136-137° (4. 313, 351; 4. 336, 21 U. 1904 [2] 1467). 2) Nitrosat d. l-Nitrocamphen. Sm. 217 ° u. Zers. (Soc. 85, 326 C. 1904 [1] 807, 1440). 2) Triäthylester d. Stickstoffdicarbonsäureketocarbonsäure (Dicarb-C10H15O7N oxathyloxamathan). Sd. 170,5-171,5 ° 11 (B. 37, 3679 C. 1904 [2] 1495). 2) Nitril d. 5-Semicarbazon-1, 3-Dimethylhexahydrobenzol-1-Carbon-C10H18ON4 säure. Sm. 200-201° (B. 37, 46-32 C. 1904 2, 1650). Dibromid d. Dihydrocarvoxyd. Sm. 55° (B. 36, 766 C. 1903 [1] $C_{10}H_{16}OBr_2$ 10) 11) Menthenondibromid. Sm. 36° (C. 1903 [2] 1373). 1) β -Merkaptocampher. Sm. 66°. Pb, HgCl (Soc. 83, 479 C. 1903 [1] C,oH,oS 923, 1137). $C_{10}H_{16}O_2N_2*11$) β -[3,5-Dioximido-4-Methylhexahydrophenyl] propen. Sm. 188° (4. 330, 274 *C.* 1904 [1] 948). 30, 21* 0. 1804 [1] 320.

14) α-d-Campherdioxim. Sm. 201° (181—182° u. Zers.) (B. 26, 243; G. 30 [2] 297; Soc. 83, 519 G. 1903 [1] 1136, 1352). — III, 500; *III, 367.

15) β-d-Campherdioxim. Sm. 248° (220—221° u. Zers.) (B. 26, 243; G. 30 [2] 298; Soc. 83, 519 G. 1903 [1] 1136, 1352). — III, 500; *III, 367.

30 [2] 298; Soc. 83, 519 C. 1903 [1] 1136, 1352). — III, 500; *III, 367.
16) γ-d-Campherdioxim. Sm. 138° (131-132°) (B. 26, 244; Soc. 83, 519 C. 1903 [1] 1136, 1352; Soc. 85, 913 C. 1904 [2] 598). — III, 500; *III, 367.
17) δ-d-Campherdioxim. Sm. 199° (Soc. 83, 520 C. 1903 [1] 1136, 1353).

- *III, 367.

18) r-Camphenylnitramin (r-Nitrocampherimin). Sm. 28° (C. r. 136, 1143)

C. 1903 [1] 1410).

19) Pernitrosoderivat (aus Thujonoxim). Fl. (R. A. L. [5] 9 [1] 211). —

*III, 385.

20) 2,4,6-Triketo-5,5-Dipropylhexahydro-1,3-Diazin (Dipropylmalonyl-harnstoff) (C. 1903 [1] 1155).

21) Skatosin. 3HCl (C. 1903 [1] 411).

C₁₀H₁₆O₂N₂ 22) Methylester d. 3,4-Dimethyl-5-Propylisopyrazol-4-Carbonsäure. Sd. 156—158 $^{\circ}_{14}$ (Bl. [3] 27, 1104 C. 1903 [1] 227). 23) Verbindung (aus d. Verbindung $C_{24}H_{24}O_4N_2$). Sm. noch nicht bei 260 $^{\circ}$

(Soc. 85, 911 C. 1904 [2] 598).
2) 5 - Nitro - 3 - Amido - 2 - Dimethylamido - 4 - Methylamido - 1 - Methyl-

 $C_{10}H_{16}O_{2}N_{4}$ benzol. Sm. $61,5-62^{\circ}$ (*J. pr.* [2] 67, 568 *C.* 1903 [2] 241). C 42,8 — H 5,7 — O 11,4 — N 40,0 — M. G. 280. C10H16O2N8

1) Porphyrindin + 2 H₂O. Sm. 190° u. Zers. wasserfrei (B. 36, 1301 C. 1903 [1] 1256).

- Chlorid d. β-Methylheptan-γ ζ-Dicarbonsäure. Sd. 247—248°₂₅ (C. r. 136, 458 C. 1903 [1] 696). $\mathbf{C}_{10}\mathbf{H}_{16}\mathbf{O}_{2}\mathbf{Cl}_{2}$
- 5) Methylester d. Dibromdihydro- β -Campholytsäure. Fl. (Soc. 83, 860 $C_{10}H_{18}O_{2}Br_{2}$ C. 1903 [2] 573).
- $C_{10}H_{16}O_{2}Br_{4}$ 1) $\alpha\beta\zeta\eta$ -Tetrabromheptan- δ -[Aethyl- β -Carbonsäure] (C. 1904 [1] 1330).
- $C_{10}H_{16}O_8N_2$ *3) d-Phellandrennitrit (B. 36, 1754 C. 1903 [2] 118). 4) α -Nitrit d. d- α -Phellandren. Sm. 112—1136 (A. 336, 15 C. 1904 [2] 1466).
 - 10) β-Nitrit d. d-α-Phellandren. Sm. 105° (A. 336, 15 C. 1904 [2] 1467).
 - 11) α-Nitrit d. 1-α-Phellandren. Sm. 112—113° (A. 336, 15 C. 1904 [2]
 - 12) β -Nitrit d. 1- α -Phellandren. Sm. 105° (A. 336, 15 C. 1904 [2] 1467).
 - 13) α-Nitrit d. β-Phellandren. Sm. 102° (G. 16, 226; A. 336, 44 C. 1904 [2] 1468). — III, 530.
 - 14) β-Nitrit d. β-Phellandren. Sm. 97-98° (G. 16, 226; A. 336, 44 C.

 - 1904 [2] 1468). III, 530.
 15) Pulegonnitrosit. Sm. 68—69° (C. r. 137, 494 C. 1903 [2] 1003).
 16) 2,4,6-Triketo-5,5-Dipropylhexahydro-1,3-Diazin. Sm. 145° (146°). Na (D.R.P. 146496 C. 1903 [2] 1483; D.R.P. 146949 C. 1904 [1] 68; A. 335, 344 C. 1904 [2] 1381).
- $C_{10}H_{16}O_4Br_2$ *7) Diäthylester d. $\alpha\delta$ -Dibrombutan- $\alpha\alpha$ -Dicarbonsäure. Sd. 176 bis 177,5 $^{\circ}_{13}$ (A. 326, 100 C. 1903 [1] 842).
- 4) Carvonhydrosulfonsäure. Na, Ba (Bl. [3] 23, 280; B. 37, 4042 C. C10H16O4S 1904 [2] 1647).
 - 5) 1-Camphersulfonsäure. NH₄ (Soc. 79, 80). *III, 371.
- C10H16O5N2
- 2) Verbindung (aus Pulcgon). Sm. 84—86° (C. 1904 [1] 282). 3) isom. Verbindung (aus Pulcgon). Sm. 64—72° (C. 1904 [1] 282). 4) isom. Verbindung (aus Pulcgon). Sm. 96—98° (C. 1904 [1] 282).
- *2) Sulfocampholencarbonsäure. NH₄, K, K₂, Ca, Ba, Mg (C. 1903 [2] $C_{10}H_{16}O_{5}S$ 38; Soc. 83, 1102 C. 1903 [2] 793).
- 6) β -Chlorcampherimin. Zers. bei 200° (C. 1903 [2] 373). $C_{10}H_{16}NC1$
- Dimethyläthylphenylammoniumnonajodid. Sm. 29° (J. pr. [2] 67, $C_{10}H_{16}NJ_{9}$ 351 C. 1903 [1] 1297).
- *13) Oxim d. d-Campher. $+ 2 \text{HgNO}_3$, $2 + \text{AgNO}_3$ (C. 1903 [2] 878). *21) r-4-Oximido-2-Isopropyl-5-Methyl-1,2,3,4-Tetrahydrobenzol. $C_{10}H_{17}ON$
 - Sm. 92—93° (A. 336, 38 C. 1904 [2] 1468). *46) Trimethyl-4-Methylphenylammoniumhydroxyd. Methylsulfat (A.
 - 327, 111 C. 1903 [1] 1213). *50) Amid d. r-α-Campholensäure. Sm. 122° (C. r. 138, 696 C. 1904 [1]
 - 1087). *55) Amid d. Pulegensäure. Sm. 121-122° (A. 327, 128 C. 1903 [1] 1412).
 - *68) d-4-Oximido-2-Isopropyl-5-Methyl-1,2,3,4-Tetrahydrobenzol. Sm.
 - 75° (A. 336, 38 C. 1904 [2] 1468). *69) Oximidomenthen. Sm. 62—62,5° (C. 1904 [1] 1347).
 - 78) Trimethyl-2-Methylphenylammoniumhydroxyd. Methylsulfat (A. 327, 111 C. 1903 [1] 1213).
 - 79) 3-Oximido-5-Isopropyl-2-Methyl-1,2,3,4-Tetrahydrobenzol. Sm. 63-66° (B. 28, 1588). - *III, 385.
 - 80) 1-4-Oximido-2-Isopropyl-5-Methyl-1,2,3,4-Tetrahydrobenzol. Sm. 75-76° (A. 336, 37 C. 1904 [2] 1468).
 - 81) α-Anhydropulegonhydroxylamin. Sd. 91%. Pikrat (B. 37, 951 C. 1904 [1] 1087; B. 37, 2282 C. 1904 [2] 441; B. 37, 1341 C. 1904 [1] 1350; B. 37, 2428 C. 1904 [2] 442).

 $C_{10}\mathbf{H}_{17}O_6\mathbf{N}_5$

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82) Oxim d. Calaminthon. Sm. 88-89°. HCl (C. r. 136, 388 C. 1903
C,0H,7ON
                        [1] 714).
                  83) Oxim d. synth. Pulegon. Sd. 145^{\circ}_{15} (A. 300, 270). — *III, 384. 84) Oxim d. Keton C_{10}H_{16}O. Sm. 96-98^{\circ} (C. 1898 [1] 572). — *III, 386.
                  85) Oxim d. Keton C<sub>10</sub>H<sub>10</sub>O (aus Terpinennitrosit). Sm. 83-84° (C. 1898
                       [1] 572). — *III, 386.
                  86) 5-Keto-1, 2, 2-Trimethyl-4-Isopropylidentetrahydropyrrol. Sd. 127
                  bis 128°<sub>15</sub> (B. 36, 3370 C. 1903 [2] 1187).
87) Amid d. 1,1,3-Trimethyl-1,2,3,4-Tetrahydrobenzol-5-Carbon-
säure? Nadeln; Sd. 168°<sub>11</sub> (D.R.P. 141699 C. 1903 [1] 1245).
C<sub>10</sub>H<sub>17</sub>ON<sub>3</sub> *11) Semicarbazon d. Pulegenon. Sm. 183—184° (A. 327, 134 C. 1903
                        [1] 1412).
                  14) a-Semicarbazon-\beta-Nonin. Sm. 78—79° (C. r. 138, 1341 C. 1904 [2] 187).
                  15) 2-Semicarbazon-l-Methyl-3-Isopropyliden-R-Pentamethylen. Sm.
                        197° (A. 331, 326 C. 1904 [1] 1567).
                   16) Semicarbazon d. Pinophoron. Sm. 157-158° (B. 37, 240 U. 1904
                        [1] 726).
                    5) Dihydrocarvonhydrochlorid. Sd. 155,5—157^{o}_{15} (J. pr. [2] 56, 256).
C<sub>10</sub>H<sub>17</sub>OCl
                          - *III, 375.
                  - 111, 513.

1) 3-Keto-4-[α-Bromisopropyl]-1-Methylhexahydrobenzol. Sm. 40,5° (A. 262, 21; B. 32, 3368). — *III, 383.

2) ο-Brommenthon. Sd. 102—108°<sub>15—16</sub> (B. 37, 2078 C. 1904 [2] 18).

3) Pulegonhydrobromid. Sm. 40—41° (C. 1904 [2] 1045).

35) sec. i-Nitrodihydrocamphen. Sm. 125—129° (C. 1903 [1] 512).
C10H17OBr
C_{10}H_{17}O_{2}N
                   36) θ-Oximido-θ-Oxy-βζ-Dimethyl-βζ-Oktadiën (Geranylhydroxamsäure).
Fl. Cu (G. 34 [2] 73 C. 1904 [2] 734).
                   37) α-Cyanoktan-α-Carbonsäure. Sm. 141° (U. 1904 [1] 880). C 56,9 — H 8,0 — O 15,2 — N 19,9 — M. G. 211.
C10H17O2N8
                    1) 2-Imido-4,6-Diketo-5,5-Dipropylhexahydro-1,3-Diazin. (A. 335, 353 C. 1904 [2] 1381).
                     7) r-Pinolglykolchlorhydrin. Sm. 105-107° (B. 29, 888). -
C<sub>10</sub>H<sub>17</sub>O<sub>2</sub>Cl
                    8) Aethylester d. β-Chlor-α-Hepten-α-Carbonsäure. Sd. 123—128°<sub>18</sub> (Bl. [3] 29, 677 C. 1903 [2] 488).
                  *3) \alpha-Campheraminsäure. NH<sub>4</sub> (Am. 32, 287 C. 1904 [2] 1222). *4) \beta-Campheraminsäure. Na (Am. 32, 287 C. 1904 [2] 1222). 32) i-Campheraminsäure. Sm. 198° (Am. 28, 485 C. 1903 [1] 329). 33) Methylester d. r-Ecgonin. Sm. 125—126° (A. 326, 68 C. 1903 [1] 841).
C_{10}H_{17}O_{8}N
                    6) 5-Semicarbazon-1, 3-Dimethylhexahydrobenzol-I-Carbonsäure. Sm.
C_{10}H_{17}O_3N_3
                     203—205 (B. 37, 4072 C. 1904 [2] 1652).
3) Verbindung (aus Terpenfinöl) (C. 1904 [2] 654).
 C_{10}H_{17}O_{3}P
 C10H17O4N8
                    2) 2, 5 - Diketo-1, 4, 4-Trimethyltetrahydroimidazol-3-"-Amidoiso-
                        buttersäure. Sm. 169° (C. 1904 [2] 1029).
                    1) \text{Di}\left[\beta\beta\text{-Dichlor}-\alpha\text{-Aethoxyäthyläther}\right] d. \beta\text{-Chlor}-\alpha\alpha\text{-Dioxyäthan}.
C<sub>10</sub>H<sub>17</sub>O<sub>4</sub>Cl<sub>5</sub>
                        Sm. 82-84° (G. 33 [2] 407 C. 1904 [1] 922).
 C_{10}H_{17}O_4Br *5) Diäthylester d. \delta-Brombutan-\alpha\alpha-Dicarbonsäure.
                                                                                                        Sd. 153-154%
                        (A. 326, 99 C. 1903 [1] 842).

    Verbindung (aus Dimethylamin u. 3,4,5-Trioxybenzol-1-Carbonsäure-
äthylester). Sm. 79° (D.R.P. 141101 C. 1903 [1] 1058).

 C10H17O5N
 C_{10}H_{17}O_5N_8 *1) \alpha-Antiperton (\alpha-Trypsinfibring perton) (H. 38, 258, 269 C. 1903 [2] 210).
                     2) \delta-Semicarbazonheptan-\alpha\eta-Dicarbonsäure. Sm. 176--177° (B. 37,
                         3820 C. 1904 [2] 1606).
                        Diathylester d. \beta-Semicarbazonpropar-\alpha\gamma-Dicarbonsäure. 94—95° (Bl. [3] 31, 1.2 ··· 1904
                                                                                                                         Sm.
                     3) Phaseolunatin. Sm. 141° (C. 1903 [2] 1334).
 C10H17O6N
                     4) Triäthylester d. Amidoessinsäure-N-Dicarbonsäure.
                                                                                                              Sm. 30,5°;
                        Sd. 152—153°<sub>10</sub> (B. 37, 37, 47, 48, 14, 12) 1495).
C 43,6 — H 6,2 — O 34,9 — N 15,3 — M. G. 275.
 C10H17O8N3
                     1) \alpha-Carbäthoxyamidopropionylamidoacetylamidoessigsäure. Sm. 161 bis 162° (B. 36, 2988 C. 1903 [2] 1112).
                     2) Aethylester d. Oxyacetyldi[Amidoacetyl]amidoessigsäure (B. 37,
                        1297 C. 1904 [1] 1336).
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C 39.6 - H 5.6 - O 31.7 - N 23.1 - M. G. 303.

246° (B. 37, 2507 O. 1904 [2] 427).

1) Tetra[Amidoacetyl]amidoessigsäure (Tetraglycylglycin). Zers. oberh.

- C10H17O7N 2) Nitrat d. $1-\alpha$ -Oxyäthan- $\alpha\beta$ -Dicarbonsäuredipropylester. Fl. (B. 35, 4365 C. 1903 [1] 321).
- C10H17O8N
- C 43,0 H 6,1 O 45,9 N 5,0 M. G. 279.
 1) Dipropylester d. Nitroweinsäure. Fl. (B. 35, 4367 C. 1903 [1] 321; B. 36, 780 C. 1903 [1] 826).
- 2) Bromathylat d. s-Aethylphenylhydrazin (C. r. 137, 330 C. 1903 [2] $C_{10}H_{17}N_{2}Br$ 716; Bl. [3] 29, 969 C. 1903 [2] 1115).
- *2) Jodathylat d. s-Aethylphenylhydrazin (C. r. 137, 330 C. 1903 [2] 716; Bl. [3] 29, 969 C. 1903 [2] 1115.
 18) Oxim d. α-Anhydropulegonhydroxylamin. Sm. 181° (B. 37, 953 $C_{10}H_{17}N_2J$
- C10H18ON2 C. 1904 [1] 1087).
 - 19) 5-Keto-4-Aethyl-3-Amyl-4,5-Dihydropyrazol. Sm. 138-1390 (Bl. [3] 31, 596 C. 1904 [2] 26).
 - 20) 2,5-Diisobutyl-1,3,4-Oxdiazol. Sd. 232° (J. pr. [2] 69, 483 C. 1904 [2] 537).
 - 21) Amid d. α-Cyanoktan-α-Carbonsäure. Sm. 137,5° (C. 1903 [2] 193).
- $\mathbf{C_{10}H_{18}O_{2}N_{2}} *8) \ \mathbf{d-\beta-[3-Oxamido-5-Oximido-4-Methylhexahydrophenyl]propen}$
 - + '/₂H₂O. Sm. 106° (A. 330, 268 C. 1904 [1] 947). 16) 1-β-[3-Oxamido-5-Oximido-4-Methylhexahydrophenyl]propen (l-Oxamidocarvoxim). Sm. 109°. 2HCl (A. 330, 273 C. 1904 [1] 948).
 - 17) β -[2-Hydroxylnitrosamido-4-Methylhexahydrophenyl]propen. Sm. 52° (B. 36, 486 C. 1903 [1] 637).
 - 18) Oxim d. Hydroxylamidodihydroumbellulon (Soc. 85, 636 C. 1904
 - [1] 1607 C. 1904 [2] 333). 19) Eucarvonoxaminoxim. Sm. 141—142°. Oxalat (A. 330, 275 C. 1904 [1] 948).
- C 42,6 H 6,4 O 11,3 N 39,7 M. G. 282. C10H18O2N8 1) Verbindung (aus Porphyrexin). Sm. 280° u. Zers. (B. 36, 1299 C. 1903
- [1] 1256). 7) Methylmonamid d. 1-Methyltetrahydropyrrol-2, 2-Dicarbonsäure- $C_{10}H_{18}O_{3}N_{2}$
- monoathylester. Sm. 199,5—200° (A. 326, 115 C. 1903 [1] 843). $C_{10}H_{18}O_4N_2$ 12) Monoureïd d. Heptan- $\delta\delta$ -Dicarbonsäure. Sm. 147° (D.R.P. 144431
- C. 1903 [2] 813; A. 335, 363 C. 1904 [2] 1382).
 C 41,9 H 6,3 H 22,4 N 29,4 M. G. 286.
 1) Isobutylester d. αβ-Disemicarbazonbuttersäure.
 (C. r. 138, 1222 C. 1904 [2] 27).
 5) I Parapolektyrofeläure. C10H18O4N6 Sm. 254-255°
- 5) 1-Borneolschwefelsäure. K (C. r. 125, 111). *III, 338.
- C10H18O4S 2) Diäthylester d. a-Carboxylamidoacetylamidopropionsäure (Carb- $C_{10}H_{18}O_5N_2$ äthoxylglycylalaninäthylester). Sm. 65,5-66,5° (B. 36, 2111 C. 1903 [2] 345).
- C 43,8 H 6,6 O 29,2 N 20,4 M. G. 274. $C_{10}H_{18}O_5N_4$ 1) Aethylester d. Tri[Amidoacetyl]amidoessigsäure. Zers. bei 270°. HCl, (2 HCl, PtCl₄ + 2 H₂O), Pikrat (B. 37, 1287 C. 1904 [1] 1336; B. 37, 2504 C. 1904 [2] 426).
- 1) Verbindung (aus Dichloressigsäurealdehyd u. 2 Molec. $\beta\beta$ -Dichlor- $\alpha\alpha$ -Dioxyäthanmonoäthyläther). Sd. 110—111° (G. 33 [2] 399 C. 1904 C₁₀H₁₈O₅Cl₆ [1] 921).
- 5) Amidohydrochlorpinen. (2HCl, PtCl₄) (C. 1903 [1] 513). 6) Chlorlupinid. (HCl, AuCl₈) (A. 235, 278). *III, 664. $C_{10}H_{18}NCl$
- 1) 2,5-Diisobutyl-1,3,4-Thiodiazol. Sd. 130-132025 (J. pr. [2] 69, 484 $C_{10}H_{18}N_2S$ C. 1904 [2] 537).
- *2) β -[2-Hydroxylamido-4-Methylhexahydrophenyl]propen. C,0H,9ON bis 123°14. (2HCl, PtCl4), Oxalat (B. 36, 485 C. 1903 [1] 637).
 - *4) 3-Keto-4-[\alpha-Amidoisopropyl]-1-Methylhexahydrobenzol (Pulegonamin). Sd. 99-100° [\alpha (B. 37, 2287 C. 1904 [2] 442).

 *12) \alpha-Isooxim d. 1-Menthon. Sm. 88-89° (C. 1904 [2] 1045).

 *39) Lupinin. Sm. 68-69° (Ar. 242, 411 C. 1904 [2] 782).

 - 42) Base (aus α-Anhydropulegonhydroxylamin). Sd. 1060 11 (B. 37, 956 C. 1904 [1] 1087).
 - 43) Oxim d. 1-P-Menthon. Sm. 88-89° (C. 1904 [2] 1045). 44) Benzoat d. 1-Menthonoxim. Sm. 54° (A. 332, 351 C. 1904 [2] 653).
 - 45) Amid d. r-α-Dihydrocampholensäure. Sm. 126° (C. r. 136, 1143 C. 1903 [1] 1410).

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*9) Semicarbazon d. Dihydropulegenon. Sm. 193-195^{\circ} (198-199^{\circ})
C10H19ON3
                        (A. 327, 136 C. 1903 [1] 1412).
                  10) 2-Semicarbazon-1-Methyl-3-Isopropyl-R-Pentamethylen. Sm. 196
                  bis 197° (B. 37, 238 C. 1904 [1] 726).
11) Pinolonsemicarbazon. Sm. 158° (B. 28, 2710). — *III, 382.
                  19) 4-[α-Nitroisopropyl]-1-Methylhexahydrobenzol. Sd. 135-137° (C.
C10H19O2N
                        1904 [1] 1517).
                  20) \theta-Oximido - \theta-Oxy - \beta\zeta-Dimethyl-\beta-Okten (Citronellalhydroxamsäure).
                        Cu (G. 34 [2] 72 C. 1904 [2] 734).
                  21) 1,2,2,5,5-Pentamethyltetrahydropyrrol-3-Carbonsäure + 2\frac{1}{2}H_2O.
                  Sm. 129°. HCl, (2 HCl, PtCl,) (B. 36, 3360 C. 1903 [2] 1185).

22) Methylester d. 2,2,5,5-Tetramethyltetrahydropyrrol-3-Carbon-
                        säure. Sd. 206°<sub>760</sub> (B. 36, 3359 C. 1903 [2] 1185).
                  23) Amid d. cis-5-Oxy 1,1,3-Trimethylhexahydrobenzol-5-Carbon-
                        säure. Sm. 128—129°; Sd. 190°, (D.R.P. 141699 C. 1903 [1] 1245).

Saure. Sin. 120—120°; Su. 190°<sub>15</sub> (D.R.F. 14109) C. 1903 [1] 1249).
Amid d. trans-5-Oxy-1,1,3-Trimethylhexahydrobenzol-5-Carbonsäure. Sm. 196°; Sd. 210°<sub>38</sub> (D.R.P. 141699 C. 1903 [1] 1245).
Imid d. Valeriansäure. Sm. 100° (C. r. 137, 130 C. 1903 [2] 552).
Imid d. Isovaleriansäure. Sm. 94° (C. r. 137, 129 C. 1903 [2] 552).
Verbindung (aus Hydroxylamin u. Dihydrocarvoxyd). Sm. 111—112°
(132, 1140) HCC (A. 270, 286, P. 26, 767 C. 1802 [11 1909).

                        (113—114°). \overset{\circ}{\text{HCl}} (A. 279, 386; B. 36, 767 C. 1903 [1 | 836). — III, 505.
                       Verbindung (aus Hydroxylamin u. Dihydrocarvoxyd). Sm. 164-165° (A. 279, 386; B. 36, 765 C. 1903 [1] 836). — III, 505.
                    2) 2-Oxy-4-[a-Semibarbazonäthyl]-1-Methylhexahydrobenzol.
C<sub>10</sub>H<sub>19</sub>O<sub>2</sub>N<sub>3</sub>
                                                                                                                         Sm.
                        206—207° (B. 36, 767 C. 1903 [1] 836).
                  14) 2-Oximido-4-[\alpha\beta-Dioxyisopropyi]-1-Methylhexahydrobenzol.
C_{10}H_{19}O_3N
                                                                                                                         Sm.
                  202° (B. 28, 2705). — *III, 375.
15) α-Oximido-β-Methyloktan-α-Carbonsäure. Sm. 89—90° (Bl. [3] 31,
                        1075 C. 1904 [2] 1458).
                  *7) \gamma-Semicarbazon-\beta-Methylheptan-\zeta-Carbonsäure. Sm. 164° (A. 327,
C_{10}H_{19}O_8N_8
                        141 C. 1903 [1] 1412).
                    8) \zeta-Semicarbazon-\beta-Methylheptan-\gamma-Carbonsäure. Sm. 140° (R. 37.
                        238 C. 1904 [1] 726).
                        γ-Semicarbazon-β-Methylheptan-ζ-Carbonsäure. Sm. 167--168° (B.
                        37, 238 C. 1904 [1] 726).
                  10) Semicarbazon d. Säure C_9H_{16}O_8 (aus Dihydropulegenon). Sm. 140 bis
                        143° (A. 327, 138 C. 1903 [1] 1412).
                  11) Aethylester d. ε-Semicarbazon-β-Wethylnentan-ε-Carbonsäure. Sm.
                        162—163° (Bl. [3] 31, 1152 C. 1901
                  12) Isobutylester d. α-Semicarbazonbutan-α-Carbonsäure. Sm. 137 bis
                        138° (Bl. [3] 31, 1150 C. 1904 [2] 1707).
                  13) Capronat d. \beta-Semicarbazon-\alpha-Oxypropan. Sm. 91° (C. r. 138,
                        1275 C. 1904 [2] 93).
                    3) \alpha-Amidoisocapronylamidoacetylamidoessigsäure. Sm. 235 ^{o} u. Zers.
C_{10}H_{19}O_4N_8
                        (B. 36, 2990 \bar{C}. 1903 [2] 1112).

    δ-[β<sub>T</sub>δ<sub>ε</sub>-Tetraoxyamyl]imido-β-Ketopentan (Acetylacetonarabinamin).
    Sm. 160° (C. r. 136, 1081 C. 1903 [1] 1305).

C10H19O5N
C_{10}H_{19}O_8P
                  *1) Phosphat d. \alpha-Oxy-\beta-Methylpropan-\beta-Carbonsäure + H<sub>2</sub>O. Sm. 110
                        bis 120^{\circ} (148° wasserfrei). K<sub>3</sub> + 5 H<sub>2</sub>O (Bl. [3] 31, 157 (f. 1904 [1] 868).
                 bis 120° (140° Wasserret). K_3 + 9 \, \Pi_3 U (B. [5] 51, 157 G. 1804 [1] 000).

15) r-5-Ureïdomethyl-1, 1, 2-Trimethyl-R-Pentamethylen (r-α-Dihydrocampholenaminharnstoff). Sm. 112° (C. r. 136, 1143 C. 1903 [1] 1410).

*4) Amid d. Oktan-αθ-Dicarbonsäure (M. 24, 626 C. 1903 [2] 1236).

16) \alpha \alpha-Di[Acetylamido]hexan. Sm. 145° (M. 25, 971 C. 1904 [2] 1598).

17) \alpha \beta-Di[4-Morpholyl]äthan (Acthylenbismorpholin). Sm. 74°; Sd. 153
C_{10}H_{20}ON_2
C10H20O2N2
                  bis 154%. 2HCl, (2HCl, PtCl<sub>4</sub>), 2(HCl, AuCl<sub>3</sub>), Dipikrat, Pikrolonat (B. 35, 4472 C. 1903 [1] 403).

18) 3-Nitroso - 4, 4, 6-Trimethyl-2-Isopropyltetrahydro-1, 3-Oxazin.
                       Fl. (M. 25, 855 C. 1904 [2] 1240).
                  19) Amid d. \beta-Methylheptan-\gamma\zeta-Dicarbonsäure. Sm. 242" (C. r. 136,
                       458 C. 1903 [1] 696).
                   3) Di[Propylamid] d. 1-Aepfelsäure. Sm. 125,5° (Soc. 83, 1325 C. 1904
C<sub>10</sub>H<sub>20</sub>O<sub>3</sub>N<sub>2</sub>
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5) Chlormethylat d. β -Aethylchinuclidin. 2 + PtGl₄ (B. 37, 3251

[1] 82).

C. 1904 [2] 996).

C₁₀H₂₀NCl

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6) Chloräthylat d. d-α-Coniceïn. 2 + PtCl<sub>4</sub> (B. 37, 1897 C. 1904 [2]
C_{10}H_{20}NC1
               7) Chloräthylat d. i-\alpha-Conicein. 2 + PtCl<sub>4</sub> (B. 37, 1899 C. 1904 [2]
                  238).
               6) Jodmethylat d. β-Aethylchinuclidin. Sm. 55° (B. 37, 3250 C. 1904
\mathbf{C}_{10}\mathbf{H}_{20}\mathbf{NJ}
                  21 996).
               7) Jodathylat d. d-α-Conicein. Sm. 170-171° (B. 37, 1897 C. 1904
                  [2] 238).
               8) Jodathylat d. i-α-Conicein. Sm. 168—169° (B. 37, 1899 C. 1904 [2]
               9) Jodäthylat d. i-e-Conicein. Sm. 176—177° (B. 37, 1891 C. 1904 [2]
C10H20N2S

    d-sec. Butylamid d. Hexahydropyridin-1-Thiocarbonsäure. Sm. 114°

                  (Ar. 242, 62 C. 1904 [1] 998).
              *2) 3-Hydroxylamido-1-Methyl-4-Isopropylhexahydrobenzol (B. 36,
C_{10}H_{21}ON
                  486 C. 1903 [1] 637).
              19) 3 - Oxy-4- [α-Amidoisopropyl] -1-Methylhexahydrobenzol (Tetra-
                  hydro-α-Anhydropulegonhydroxylamin). Sd. 134—135% (B. 37, 956
              C. 1904 [1] 1087; B. 37, 2285 C. 1904 [2] 441).
20) 4,4,6-Trimethyl-2-Isopropyltetrahydro-1,3-Oxazin. Sd. 171—173°<sub>744</sub>.
                  (2 HCl, PtCl<sub>4</sub>), (HCl, AuCl<sub>8</sub>) (M. 25, 852 C. 1904 [2] 1240).
              *2) \beta-Semicarbazonnonan. Sm. 119—120° (Soc. 81, 1588 C. 1903 [1] 29,
C_{10}H_{21}ON_3
               7) δ-Semicarbazonnonan. Sm. 73-74° (Bl. [3] 31, 1158 C. 1904 [2]
                  1708).
               8) \beta-Semicarbazon-\delta-Methyloktan. Sm. 75° (Soc. 81, 1595 C. 1903 [1]
                  16, 132).
               1) Amyläther d. s-Brom-\alpha-Oxypentan. Sd. 130—131_{20}^{0} (C. r. 138, 1611
C<sub>10</sub>H<sub>21</sub>OBr
                  C. 1904 [2] 429).
              *5) \delta-Oxy-\gamma-Oximidomethyl-\beta\zeta-Dimethylheptan. Sd. 157^{\circ}_{14} (M. 25, 1042 C. 1904 [2] 1599).
C10H21O2N
              10) Nitrit d. α-Oxydekan. Sd 105-108° (C. r. 136, 1564 C. 1903 [2]
                   339).
              11) Diäthylamidoformiat d. γ-Oxypentan. Sd. 206-208° (Bl. [3] 31,
                   690 C. 1904 [2] 198).
                                    2 Chlorid + PtCl<sub>4</sub>, Nitrat (C. 1898 [2] 889; 1899 [1]
               2) Tropincholin.
C_{10}H_{21}O_{3}N
                  119). — *III, 606.
               3) Nitrat d. \alpha-Oxydekan. Sd. 127—128^{\circ}_{11} (C. r. 136, 1563 C. 1903 [2] 338).
              *1) Diisoamylnitrosamin. Sd. 132,4—132,8°<sub>14,5</sub> (B. 36, 2477 C. 1903 [2]
C,0H22ON2
               *2) Diisoamylester d. Schwefelsäure. Sd. 149-151 (Am. 30, 221
C10H22O4S
                   C. 1903 [2] 937).
               10) Jodmethylat d. 2-Methyl-5-Isopropyltetrahydropyrrol. Sm. 242
 C10H22NJ
                   243° (C. 1903 [2] 1324).
                2) \alpha-[d-sec. Buty1]-\beta-Isoamylthioharnstoff. Sm. 43-44° (Ar. 242, 61
 C10H22N2S
                   C. 1904 [1] 998).
               4) \theta-Amido-\beta-Oxy-\beta \zeta-Dimethyloktan. Sd. 140^{\circ}_{15} (Bl. [3] 29, 1049 C. 1903 [2] 1439).
 C_{10}H_{28}ON
                5) \alpha-Dimethylamido-\beta-Oxy-\beta \varepsilon-Dimethylhexan. Sd. 98^{\circ}_{24} (C. r. 138,
                   767 C. 1904 [1] 1196).
                6) Aethylhydroxyd d. 1-Propylhexahydropyridin. d-Bromcampher-
                   sulfonat (Soc. 83, 1142 C. 1903 [2] 1062).
               *2) Di[α-Oxyisoamyl]unterphosphorige Säure. Sm. 230° (C. 1904 [2]
 C,0H23O4P
                   1709).
                3) Säure (aus Oenanthaldehyd). Sm. 131° (C. r. 138, 1708 C. 1904 [2]
                   C 50,8 — H 10,2 — O 27,1 — N 11,9 — M. G. 236.
 C_{10}H_{24}O_4N_2
                1) \alpha\beta-Di[\beta-Oxyāthylamido]āthan. Fl. (2 HCl, PtCl<sub>4</sub>) (B. 35, 4471 C. 1903
                    [1] 403)
 C_{10}H_{24}N_2Cl_2 1) Di[Chlormethylat] d.1,4-Diäthylhexahydro-1,4-Diazin. 2 + PtCl<sub>4</sub>
               (B. 36, 145 C. 1903 [1] 526).
*1) Jodmethylat d. 1,3,5-Triäthylhexahydro-1,3,5-Triazin. Sm. 98
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bis 99° (A. 334, 219 C. 1904 [2] 899).

 $C_{10}H_{24}N_3J$

_ 10 IV _

	<u> </u>
$\mathrm{C_{10}H_4O_2ClBr}$	1) 3-Chlor-4-Brom-1,2-Naphtochinon. Sm. 181,5° (B. 33, 2412). — *III, 382.
$\mathrm{C_{10}H_4O_3Cl_2Br_2}$	
$\mathbf{C_{10}H_4O_6N_2Cl_2}$	1) 1,4-Dichlor-1, 4-Dinitro-2, 3-Diketo-1, 2, 3, 4-Tetrahydrona phtalin + 2H ₂ O. Sm. 155° u. Zers. (A. 334, 355 C. 1904 [2] 1054).
$\mathbf{C_{10}H_4O_6N_2Br_2}$	1) 1,4-Dibrom-1,4-Dinitro-2,3-Diketo-1,2,3,4-Tetrahydronaphtalin $+ 2H_2O$. Sm. 134° (A. 334, 365 C. 1904 [2] 1055).
$\mathrm{C_{10}H_5ON_2Br}$	2) Anhydrid d. 4-Brom-2-Oxy-1-Diazonaphtalin. Sm. 132—133° u. Zers. (C. 1903 [1] 401).
$egin{array}{l} \mathbf{C_{10}H_6ON_2Br_2} \\ \mathbf{C_{10}H_6O_3NBr} \end{array}$	2) 2,4-Dibrom-I-Diazonaphtalin. Sulfat (C. 1903 [1] 401). *3) 6-Brom-I-Nitro-2-Oxynaphtalin. Sm. 122—123 (A. 333, 369) C. 1904 [2] 1117).
	8) 4-Brom-2-Nitro-1-Oxynaphtalin. Sm. 102° (4. 333, 368 U. 1904 [2] 1117).
$\mathbf{C_{10}H_6O_8N_2S}$	*1) 2, 4-Dinitro-1-Oxynaphtalin-7-Sulfonsäure. $K_2 + \frac{1}{2} I_2 I_2 I_3 I_4 I_5 I_5 I_6 I_6 I_7 I_7 I_7 I_7 I_7 I_7 I_7 I_7 I_7 I_7$
$egin{array}{l} \mathbf{C_{10}H_7ON_2Cl} \\ \mathbf{C_{10}H_7O_2NS_2} \end{array}$	1) 1-Chlor-2-Diazonaphtalin. Sulfat (C. 1903 [1] 401). 1) 2-Thiocarbonyl-4-Keto-5-[2-Oxybenzyliden]tetrahydrothiazol.
C ₁₀ H ₇ O ₂ N ₂ Cl	Sm. 200° u. Zers. (M. 23, 960 C. 1903 1 284).
	4) 5-Chlor-4, 6-Diketo-2-Phenyl-3, 4, 5, 6-Tetrahydro-1, 3-Diazin. Sm. noch nicht bei 320° (Soc. 83, 379 U. 1903 [1] 1144).
C ₁₀ H ₇ O ₃ NS	1) 2,4-Diketo-5-[2-Oxybenzyliden]tetrahydrothiazol. Sm. 230° u. Zers. (M. 23, 964 G. 1903 [1] 284).
C ₁₀ H ₇ O ₃ ClS	*1) 1-Chlornaphtalin-2-Sulfonsäure + 3½ H ₂ O. Sm. 130—133 ° u. Zers. (R. 23, 182 C. 1904 [2] 228).
C ₁₀ H ₇ O ₆ N ₂ Cl ₃	1) Aethylester d. Trichlordinitrophenylessigsäure. Sm. 87—88° (Am. 31, 383 C. 1904 [1] 1409).
C ₁₀ H ₇ O ₇ ClS ₂	*2) 8-Chlor-1-Oxynaphtalin-3, 6-Disulfonsäure (I).R.P. 147852 C. 1904 [1] 133).
$C_{10}H_7O_8N_3Cl_2$	1) Aethylester d. 3, 5-Dichlor-2, 4, 6-Trinitrophenylessigsüure. Sm. 130-131° (Am. 32, 175 C. 1904 [2] 951).
$C_{10}H_7O_8ClS_2$	1) P-Chlor-1, 8-Dioxynaphtalin-3, 6-Disulfonsaure (D.R.P. 153195 C. 1904 [2] 575).
$C_{10}H_8ONBr$	8) Methyläther d. 5-Brom-6-Oxychinolin. Sm. 94-95° (B. 36, 459 C. 1903 [1] 590).
$\mathrm{C_{10}H_8ON_2Br_2}$	3) 6,8-Dibrom-4-Keto-2-Aethyl-3,4-Dihydro-1,3-Benzdiazin. Sm. 278-280° (C. 1903 [2] 1194).
	4) 6.8-Dihrom 4-Kerb-6-Astim-3,4-Dihydro-1,3-Benzdiazin. Sm.
$\mathrm{C_{10}H_8ON_2S}$	5) 4-Benzoyl-5-Methyl-1, 2, 3-Thiodiazol. Sm. 43°. + HgCl, (4. 325, 171 C. 1903 [1] 645).
	6) 4-Acetyl-5-Phenyl-1, 2, 3-Thiodiazol. Sm. 70° (A. 325, 174 C. 1903 [1] 645).
$C_{10}H_8O_2NC1$	7) 4-Chlor-1-[\alpha-0ximido\athyl]benzfuran. Sm. 162-164\dagger (A. 312, 334) *III. 530.
	8) 5-Chlor-6-Oxy-2-Keto-1-Methyl-1 2-Dihydrochinglin
$\mathrm{C_{10}H_8O_2N_2S}$	2) 2-Imido-4-Keto-5-[2-Oxybenzyliden]tetrahydnothiogol
$\mathbf{C_{10}H_8O_2N_8Br}$	2) 4-Oximido - 5 - Keto - 3 - Methyl - 1 - [4 Promphene 1] 4 5 750
$\mathbf{C_{10}H_8O_8NCl}$	3) η-Keto-α-[4-Chlor-2-Nitrophenyl]-α-Buten, Sm 1020 (R 37 1907
$\mathrm{C_{10}H_8O_8NBr}$	8) y-Keto-a- 4-Brom-2-Nitrophenyll-a-Ruten Sm 1004 (7) 257 1669
$\mathbf{C_{10}H_8O_5N_4S}$	1) 1-Phenylazoimidazol - 4 oder 51- Carbonsings 14 Galery "
$C_{10}\mathbf{H}_{9}\mathbf{ONS}_{2}$	2) 2-Thiocarbonyl-4-Keto-5-Methyl-3 Phonyltatankaria
$\mathbf{C_{10}H_{9}ON_{3}S_{2}}$	Sm. 118119° (M. 25, 179 C. 1904 [1] 896). 2) 4-Methylphenylamid d. Front denter an invitation of the saure. Sm. 182° (Soc. 83, 92 1903,)
	(200) 1 1000 (2 = 3 1.1)

$\mathbf{C_{10}H_9O_2NCl_2}$	1) Methyl-3-Chlor-4-Acetylchloramidophenylketon. Sm. 56° (Soc. 85, 341 C. 1904 [1] 1404).
$\mathbf{C_{10}H_9O_2NJ_2}$	1) 2,4-Dijodphenylimid d. Essigsäure. Sm. 93° (C. r. 139, 65 C. 1904 [2] 590).
	2) 2,6-Dijodphenylimid d. Essigsäure. Sm. 147° (C. r. 138, 1505 C. 1904 [2] 319).
$C_{10}\mathbf{H}_9\mathbf{O}_2\mathbf{NS}$	8) Aethylester d. Benzthiazol-I-Carbonsäure. Sm. 70—71° (B. 37, 3732 C. 1904 [2] 1451).
$\mathbf{C_{10}H_{9}O_{2}N_{2}Cl}$	*1) Dimethyläther d. 4-Chlor-5,6-Dioxy-2,3-Benzdiazin (Chloropiazin) (B. 36, 3374 C. 1903 [2] 1191).
$\mathbf{C_{10}H_9O_2N_2J}$	5) Jodmethylat d. 8-Nitrochinolin. Zers. oberh. 100° (B. 36, 261 C. 1903 [1] 524).
$\mathbf{C}_{10}\mathbf{H}_{9}\mathbf{O}_{2}\mathbf{N}_{3}\mathbf{Se}$	 α-Phenyl-β-Selencyanacetylharnstoff. Sm. 147—148° (Ar. 241, 192 C. 1903 [2] 103).
$\mathbf{C}_{10}\mathbf{H}_{9}\mathbf{O}_{2}\mathbf{ClBr}_{4}$	 Verbindung (aus 2,5,6-Tribrom-3-Oxy-4-Keto-1-[β-Brompropyliden]- 1,4-Dihydrobenzol). Sm. 102—103° (A. 329, 33° C. 1903 [2] 1436).
$\mathbf{C}_{10}\mathbf{H}_{9}\mathbf{O}_{3}\mathbf{NS}$	*1) 1-Amidonaphtalin-2-Sulfonsäure. Sm. 262—265° u. Zers. NH ₄ (R. 23, 180 C. 1904 [2] 227).
	*14) İ-Naphtylsulfaminsäure. NH_4 , Ba $+ 3H_2O$ (R. 23, 182 C. 1904 [2] $2\overline{27}$).
	33) Hydroxylamid d. Naphtalin-1-Sulfonsäure. Sm. 153° u. Zers. (C. 1902 [2] 692; G. 33 [2] 305 C. 1904 [1] 288).
$\mathbf{C}_{10}\mathbf{H}_{9}\mathbf{O_{3}N_{2}Cl}$	2) 3-Chlor-5-Nitro-2-Oxy-1-Methyl-1,2-Dihydrochinolin. Sm. 120 bis 130° u. Zers. (B. 36, 1207 C. 1903 [1] 1417).
$\mathbf{C_{10}H_9O_3N_2Br}$	*2) 3-Brom-5-Nitro-2-Oxy-1-Methyl-1, 2-Dihydrochinolin (B. 36, 1205 C. 1903 [1] 1417).
$\mathbf{C}_{10}\mathbf{H}_{9}\mathbf{O}_{4}\mathbf{N}\mathbf{B}\mathbf{r}_{2}$	3) Methylätherd. a-Bromäthyl-3-Brom-?-Nitro-4-Oxyphenylketon. Sm. 92 ° (B. 37, 1548 C. 1904 [1] 1437).
$C_{10}H_9O_4NS$	*7) 7-Amido-1-Oxynaphtalin-3-Sulfonsäure (J. pr. [2] 69, 90 C. 1904 [1] 813).
	*27) 6-Amido-1-Oxynaphtalin-3-Sulfonsäure (J. pr. [2] 69, 82 C. 1904 [1] 812).
	41) 8-Amido-1-Oxynaphtalin-4-Sulfonsäure (D.R.P. 140710 C. 1908 [1] 1058; D.R.P. 147852 C. 1904 [1] 133; J. pr. [2] 69, 86 C. 1904
C ₁₀ H ₉ O ₄ N ₂ Cl	[1] 813). 2) Diacetat d. 2-Chlor-1,4-Dioximido-1,4-Dihydrobenzol. Sm. 171
$\mathbf{C}_{10}\mathbf{H}_{9}\mathbf{O}_{4}\mathbf{N}_{2}\mathbf{B}\mathbf{r}$	bis 172° (A. 303, 10). — *III, 257. 3) 5-Brom-P-Dinitro-1, 2, 3, 4-Tetrahydronaphtalin. Sm. 91° (Soc.
01011904119221	85, 747 C. 1904 [2] 447. 4) 6-Brom-P-Dinitro-1, 2, 3, 4-Tetrahydronaphtalin. Sm. 105—106°
$\mathrm{C_{10}H_{9}O_{6}NS_{2}}$	(Soc. 85, 747 C. 1904 [2] 447). *8) 1-Amidonaphtalin-4,8-Disulfonsäure (J. pr. [2] 69, 80 C. 1904
$\mathbf{C}_{10}\mathbf{H}_{9}\mathbf{O}_{7}\mathbf{NS}_{2}$	[1] 812). *4) 8-Amido-1-Oxynaphtalin-3, 6-Disulfonsäure (D.R.P. 147852
C ₁₀ H ₁₀ ONCl	 C. 1904 [1] 133; D.R.P. 153557 C. 1904 [2] 750). 12) 1-Chlor-2-Nitroso-1-Methyl-2,3-Dihydroinden (Methylindennitro-
C ₁₀ H ₁₀ ON ₂ S	sochlorid) (A. 336, 4 C. 1904 [2] 1465). *1) 2-Thiocarbonyl-5-Keto-4-Methyl-1-Phenyltetrahydroimidazol.
C ₁₀ H ₁₀ ON ₂ Se	Sm. 185° (Bl. [3] 29, 1195 C. 1904 [1] 361). 1) Methylphenylamid d. Selencyanessigsäure. Sm. 78° (Ar. 241,
	216 C. 1903 [2] 104). 2) 2-Methylphenylamid d. Selencyanessigsäure. Sm. 126° (Ar. 241,
	204 C. 1903 [2] 104). 3) 3-Methylphenylamid d. Selencyanessigsäure. Sm. 136° (Ar. 241,
	205 C. 1903 [2] 104). 4) 4-Methylphenylamid d. Selencyanessigsäure. Sm. 160° (Ar. 241,
$\mathbf{C}_{10}\mathbf{H}_{10}\mathbf{OClJ}$	206 C. 1903 [2] 104). 1) $\alpha[\text{oder }\beta]$ -Chlor- $\beta[\text{oder }\alpha]$ -Jod- γ -Keto- α -Phenylbutan. Sm. 59
C ₁₀ H ₁₀ O ₂ NCl	bis 60° u. Zers. (C. 1904 [2] 507). 8) Methyl-3-Chlor-4-Acetylamidophenylketon. Sm. 163° (Soc. 85,
	9) Methyl-4-Acetylchloramidophenylketon. Sm. 92° (C. 1903 [1]
	832; Soc. 85, 390 C. 1904 [1] 1404).

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3) \beta\beta\beta-Trichlor-\alpha-Oxyäthyläther d. \alpha-Oximido -\alpha-Phenyläthan
C<sub>10</sub>H<sub>10</sub>O<sub>2</sub>NCl<sub>3</sub>
                     Chloralacetophenonoxim). Sm. 81° (C. 1897 [1] 300). — *III, 100.
                  7) Methyl-4-Acetylbromamidophenylketon. Sm. 83'0 (C. 1903 [1]
C_{10}H_{10}O_2NBr
                    832; Soc. 85, 390 C. 1904 [1] 1404).
               *12) Hydrazid d. Naphtalin-2-Sulfonsäure. Sm. 137-139° (C. 1904
C_{10}H_{10}O_2N_2S
                     [2] 1494).
                    2-Methoxylphenylamid d. Selencyanessigsäure. Sm. 110° (Ar.
C_{10}H_{10}O_2N_2Se
                    241, 214 C. 1903 [2] 104).
                  2) 4-Methoxylphenylamid d. Selencyanessigsäure. Sm. 131° (Ar.
                    241, 215 C. 1903 [2] 104).
                  1) 1-Phenylazo-2-Methylimidazol-14-Sulfonsäure. Zers. bei 2500
C_{10}H_{10}O_8N_4S
                     (B. 37, 699 C. 1904 [1] 1562).
                *7) Methylester d. 3-Chloracetylamido-4-Oxybenzol-1-Carbonsäure.
C10H10O4NC1
                    Sm. 191° (A. 325, 332 C. 1903 [1] 771).
                  8) α-Oxy-γ-Keto-α-[4-Chlor-2-Nitrophenyl] butan. Sm. 76° (B. 37,
                    1866 C. 1904 [1] 1600).
                  9) α-Oxy-γ-Keto-α-[4-Brom-2-Nitrophenyl] butan. Sm. 92° (B. 37,
C10H10O4NBr
                  1868 C. 1904 [1] 1601).
1) Nitril d. Benzol-1,3-Di[Sulfonamidoessigsäure]. Sm. 149—150°
C_{10}H_{10}O_4N_4S_2
                    (B. 37, 4102 C. 1904 [2] 1727).
                  3) Aethyl-4-Brom-6-Nitro-2-Methylphenylester d. Kohlensäure.
C10H10O5NBr
                    Sm. 61-62° (Am. 32, 33 C. 1904 [2] 697).
                  4) Aethyl-6-Brom-2-Nitro-4-Methylphenylester d. Kohlensäure.
                    Sm. 84-85° (Am. 32, 35 C. 1904 [2] 697).
                  4) 3,5-Dichlor-4-Acetylamido-1,2-Dimethylbenzol. Sm. 1850 (Soc.
C<sub>10</sub>H<sub>11</sub>ONCl<sub>2</sub>
                    85, 278 C. 1904 [1] 1009).
                  8) Phenylamid d. \alpha\beta-Dibromisobuttersäure. Sm. 128° (B. 36, 1260)
C<sub>10</sub>H<sub>11</sub>ONBr<sub>2</sub>
                     C. 1903 [1] 1219).
                 *4) Benzylester d. Acetylamidodithioameisensäure. Sm. 135-137"
C,0H,1ONS2
                     (Bl. [3] 29, 51 C. 1903 [1] 446).
                  5) Gem. Anhydrid d. Benzolcarbonsäure u. Aethylamidodithio-
                    ameisensäure. Sm. 76° (B. 36, 3526 C. 1903 [2] 1326).
                  6) Gem. Anhydrid d. Benzolcarbonsäure u. Dimethylamidodi-
                    thioameisensäure (N-Dimethyl-S-Benzoyldithiourethan). Sm. 50"
                     (B. 36, 3525 C. 1903 [2] 1326).
                  2) 1-Amido-2-Thiocarbonyl-4-Keto-5-Methyl-3-Phenyltetrahydro-
C10H11ON3S
                    imidazol. Sm. 150° (C. 1904 [2] 1027).
                  3) 5-Merkapto-4-Methyl-1-Benzyl-4, 5-Dihydro-1, 2, 4-Triazol-3, 5-
                     Oxyd. Sm. 117° (B. 37, 2334 C. 1904 [2] 314).
                  4) Methyläther d. 3-Merkapto-5-Keto-4-Methyl-1-Phenyl-4,5-
                    Dihydro-1,2,4-Triazol. Sm. 95° (B. 36, 3153 C. 1903 [2] 1074).
                  5) Aethyläther d. 3-Merkapto-5-Keto-1-Phenyl-4,5-Dihydro-
                     1,2,4-Triazol. Sm. 138° (B. 36, 3153 C. 1903 [2] 1074).
                  6) 5-Thiocarbonyl-3-Keto-4-Methyl-1-Benzyltetrahydro-1, 2, 4-
                    Triazol. Sm. 157° (B. 37, 2335 U. 1904 [2] 314).
C<sub>10</sub>H<sub>11</sub>OClBr<sub>2</sub>
                  2) Methyläther d. 3, 6-Dibrom-5-Oxy-2-Chlormethyl-1, 4-Dimethyl-
                    benzol. Sm. 116-117° (A. 334, 302 C. 1904 [2] 985).
                  1) 2-Oxy-1,2,3,4-Tetrahydronaphtalin-3-Quecksilberbromid. Sm.
C<sub>10</sub>H<sub>11</sub>OBrHg
                     159° (B. 36, 3706 C. 1903 [2] 1239).
C<sub>10</sub>H<sub>11</sub>OBr<sub>2</sub>J
                  1) Methyläther d. 3,6-Dibrom-5-Oxy-2-Jodmethyl-1,4-Dimethyl-
                     benzol. Sm. 114-115° (A. 334, 303 C. 1904 [2] 985).
C<sub>10</sub>H<sub>11</sub>OJHg
                  1) 2-Oxy-1,2,3,4-Tetrahydronaphtalin-3-Quecksilberjodid.
                                                                                       Sm.
                  156° (B. 36, 3706 C. 1903 [2] 1239).
2) Acetat d. 2-[\alpha\beta-Dibrom-\beta'-Oxyisopropyl]pyridin. Sm. 89—90°
C_{10}H_{11}O_2NBr_2
                    (B. 37, 745 C. 1904 [1] 1090).
C10H11O2NS
                 *5) Dimethyläther d. Benzoylimidomerkaptooxymethan. Sm. 43°;
                  Sd. 200°<sub>20</sub> (Am. 32, 364 C. 1904 [2] 1506).
8) S-Phenylamid d. Thiooxalsäure-O-Aethylester. Fl. (B. 37, 3712
                     C. 1904 [2] 1449).
                  9) 4-Chlor-1, 2-Di[Acetylamido]benzol. Sm. 201° u. Zers. (B. 36,
C_{10}H_{11}O_{2}N_{2}Cl
                    4028 C. 1904 [1] 294).
C<sub>10</sub>H<sub>11</sub>O<sub>2</sub>ClBr,
                  2) 3-Methyläther d. 5-Brom-3,4-Dioxy-1-[α-Chlor-β-Brompropy1]-
                    benzol. Sm. 110° (A. 329, 15 C. 1903 [2] 1434).
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$\mathrm{C_{10}H_{11}O_{2}ClS}$	2) Chlorid d. 1,2,3,4-Tetrahydronaphtalin-5-Sulfonsäure. Sm. 70,5° (Soc. 85, 756 C. 1904 [2] 449).
$\mathrm{C_{10}H_{11}O_{3}ClHg}$	1) Verbindung (aus Safrol). Zers. bei 170° (B. 36, 3579 C. 1903 [2] 1363).
	2) isom. Verbindung (aus Safrol). Sm. 138° (B. 36, 3579 C. 1903 [2] 1363).
$\mathbf{C_{10}H_{11}O_{5}N_{2}Br_{8}}$	 Verbindung (aus d. Verb. C₁₀H₁₄O₅N₂). Sm. 78° (Soc. 85, 334 C. 1904 [1] 807, 1440).
$\mathbf{C_{10}H_{11}O_6N_2Br}$	4) Dimethyläther d. β -Brom- β -Nitro- $\alpha \alpha$ -Dioxy- α -[4-Nitrophenyl]- äthan. Sm. 122,5—123° (A. 325, 16 C. 1903 [1] 287).
$\mathbf{C}_{10}\mathbf{H}_{11}\mathbf{O}_{7}\mathbf{NS}$	 1-Propylester d. 4-Nitrobenzol-l-Carbonsäure-2-Sulfonsäure. K, Ba + 4H₂O (Am. 30, 391 C. 1904 [1] 276).
$\mathbf{C}_{10}\mathbf{H}_{11}\mathbf{O}_{7}\mathbf{N}_{2}\mathbf{Cl}$	 Diäthyläther d. 6-Chlor-2,4-Dinitro-1,3,5-Trioxybenzol. Sm. 102-103°. Ba (B. 35, 3856 C. 1903 [1] 21; Am. 31, 378 C. 1904 [1] 1409).
$\mathbf{C_{10}H_{11}NBr_{2}S}$	 βγ-Dibrompropylamid d. Benzolthiocarbonsäure. Sm. 208—209° (B. 37, 878 C. 1904 [1] 1004).
C ¹⁰ H ¹³ ONCI *	21) 2,4-Dimethylphenylamid d. Chloressigsäure. Sm. 151-152° (C. 1903 [2] 110).
$\mathbf{C}_{10}\mathbf{H}_{12}\mathbf{ONCl}_{8}$	4) 2,4,6-Trimethylpyridin + Chloral. Sm. 139,5° (B. 37, 1335 C. 1904 [1] 1361).
$\mathbf{C}_{10}\mathbf{H}_{12}\mathbf{ON}_{2}\mathbf{S}_{2}$	4) 5-Methyläther d. 5-Merkapto-2-Oxy-2-Methyl-3-Phenyl-2,3-Dihydro-1,3,4-Thiodiazol. Sm. 182° (J. pr. [2] 67, 251 C. 1903 [1] 1265).
	 5) Methylester d. Acetylphenylamidodithioameisensäure. Sm. 126° (J. pr. 2] 67, 252 C. 1903 [1] 1265).
	 Aethylester d. β-Phenylthioureïdothiolameisensäure. Sm. 131 bis 132° (Am. 30, 181 C. 1903 [2] 873).
$\mathbf{C_{10}H_{12}O_{2}NCl}$	 *8) Anetholnitrosylchlorid. Sm. 127—128°. Na (A. 332, 326 C. 1904) 2 651; C. 1904 [2] 1038).
$\mathbf{C_{10}H_{12}O_{2}N_{2}S}$	17) Methylester d. 2-Methylphenylthiopseudoallophansaure. Sm. 175—176°. HCl (Soc. 83, 564 C. 1903 [1] 1123, 1306).
	[8] Methylester d. 4-Methylphenylthiopseudoallophansäure. Sm. 175—176° (Soc. 83, 563 C. 1903 [1] 1123).
•	 (9) Amid d. Phenylamidothioessigsäure-2-Carbonsäuremethylester. Sm. 178° (D.R.P. 141698 C. 1903 [1] 1244).
$\mathbf{C_{10}H_{12}O_{2}N_{2}Se}$	1) Methylphenylamid d. Carbaminselenessigsäure. Sm. 123 u. Zers. (Ar. 241, 216 C. 1903 2 104).
$C_{10}H_{12}O_{2}N_{8}J$	1) Jodmethylat d. 6-Nitro-1,2-Dimethylbenzimidazol. Sm. 267°. + J. (B. 36, 3970 C. 1904 [1] 177).
	2) Jodmethylat d. P-Nitro-1,5-Dimethylbenzimidazol. Sm. 238°. + J. (B. 36, 3971 C. 1904 [1] 178).
$\mathbf{C}_{10}\mathbf{H}_{12}\mathbf{O}_{2}\mathbf{N}_{4}\mathbf{S}$	 a-[3-Nitrobenzyliden]amido-αβ-Dimethylthioharnstoff. Sm. 227 bis 228° (B. 37, 2321 C. 1904 [2] 311).
$\mathrm{C_{10}H_{12}O_{3}NBr}$	*1) 6-Brom-2-Nitro-3-Oxy-4-Isopropyl-1-Methylbenzol. Sm. 109 bis 111° (A. 333, 357 C. 1904 [2] 1116).
	6) Aethylester d. 5-Brom-2-Oxy-3-Methylphenylamidoameisensäure. Sm. 123° (Am. 32, 34 C. 1904 [2] 697).
	 7) Aethylester d. 5-Brom-6-Oxy-3-Methylphenylamidoameisensäure. Sm. 83° (Am. 32, 36 C. 1904 [2] 697). 8) Aethyl-4-Brom-6-Amido-2-Methylphenylester d. Kohlensäure.
	HCl (Am. 31, 501 C. 1904 [2] 95; Am. 32, 34 C. 1904 [2] 697). 9) Aethyl-6-Brom-2-Amido-4-Methylphenylester d. Kohlensäure.
	HCl (Am. 31, 501 C. 1904 [2] 95; Am. 32, 36 C. 1904 [2] 697). 1) 8-Chloracetylamido-2,6-Diketo-1,3,7-Trimethylpurin. Sm. 208°
$egin{aligned} & & & & & & & & & & & & & & & & & & &$	(D.R.P. 139960 C. 1903 [1] 859). 2) Diäthyläther d. 6-Brom-4-Nitro-1,3-Dioxybenzol. Sm. 103 bis
$C_{10}H_{12}O_4NB1$ $C_{10}H_{12}O_5N_2S$	104° (Am. 28, 467 C. 1903 [1] 323). 1) 2-Nitro-4-Aethoxylphenylamid d. Aethensulfonsäure. Sm. 92°
$C_{10}H_{12}O_{6}N_{2}S$	(B. 36, 3632 C. 1903 [2] 1327). 1) $r-\alpha$ -[5-Nitro-2-Methylphenylsulfon]amidopropionsäure. Sm. 96°.
$C_{10}H_{12}O_{6}N_{2}S_{2}$	Ba (H. 43, 70 C. 1904 [2] 1607). 1) Amid d. 1,3-Phenylendi[Sulfonessigsäure]. Sm. 229—230° (J. pr. [2] 68, 327 C. 1903 [2] 1171).
	(v. pr. [2] 00, 321 0. 1000 [2] 1111).

$\mathbf{C_{10}H_{12}O_{8}N_{2}S_{2}}$	*1) Benzol-1, 3-Di [Sulfonamidoessigsäure]. Sm. 181° u. Zers. (B. 37, 4102 C. 1904 [2] 1727).
$\mathrm{C}_{10}\mathrm{H}_{12}\mathrm{Cl}_2\mathrm{BrJ}$	 αβ-Dichloräthyl-4-Aethylphenyljodoniumbromid. Sm. 129° (A. 327, 297 C. 1903 [2] 352).
$\mathbf{C}_{10}\mathbf{H}_{13}\mathbf{ONS}$	23) 4-Aethoxylphenylamid d. Thioessigsäure. Sm. 99-100° (B. 37, 876 C. 1904 [1] 1004).
$\mathbf{C}_{10}\mathbf{H}_{18}\mathbf{ON}_3\mathbf{Cl}_2$	 4-Semicarbazon-1-Dichlormethyl-1,2-Dimethyl-1,4-Dihydrobenzol. Sm. 212° (B. 35, 4216 C. 1903 [1] 161). 4-Semicarbazon-1-Dichlormethyl-1,3-Dimethyl-1,4-Dihydrobenzol. Sm. 182—186° (B. 35, 4217 C. 1903 [1] 161).
$\mathbf{C_{10}H_{18}ON_3S_2}$	1) β -Amid d. α -Phenylhydrazin- $\alpha\beta$ -Di[Thiocarbonsäure]- α -Aethylester. Sm. 173° u. Zers. (B. 37, 185 C. 1904 [1] 669).
$\mathbf{C_{10}H_{13}O_{2}N_{2}Cl}$	3) η -Chlor- α -[4-Methylphenyl]nitrosamido- β -Oxypropan. Sm. 70,5° (B. 37, 3035 C. 1904 [2] 1213).
${\rm C_{10}H_{13}O_{2}N_{3}S}$	3) Aethylester d. Phenylthiosemicarbazidoameisensäure. Sm. 142° (P. Gutmann, Dissert., Heidelberg 1903).
$C_{10}H_{13}O_2ClHg$	1) Verbindung (aus Methylchavicol). Sm. 81—82° (B. 36, 3580 C. 1903 [2] 1363).
	2) isom. Verbindung (aus Methylchavicol). Sm. 55% (B. 36, 3581 C. 1903 [2] 1363).
$\mathrm{C_{10}H_{13}O_{2}BrHg}$	1) Verbinding (aus Methylchavicol). Sm. 70° (B. 36, 3581 C. 1903 [2] 1363).
$C_{10}H_{13}O_8NS$	6) 5-Amido-1, 2, 3, 4-Tetrahydronaphtalin - 8-Sulfonsäure $+$ H ₂ O. Na $+$ 2H ₂ O, Ba $+$ 3H ₂ O (Soc. 85, 755 C. 1904 [2] 449).
	7) 4-Arthourlabourlamid d. Aethensulfonsäure. Sm. 88° (B. 36, 36 1903 [1] 112.
$\mathbf{C}_{10}\mathbf{H}_{13}\mathbf{O}_{3}\mathbf{ClS}$	7) Chlorid d. 4-Oxy-1-Aethylbenzoläthyläther-P-Sulfonsäure. Fl. (B. 36, 3594 C. 1903 [2] 1366).
$\mathrm{C_{10}H_{13}O_{4}BrS}$	4) 6-Brom-4-Oxy-1-tert. Butylbenzol-2-Sulfonsäure. K (Soc. 83, 330 C. 1903 [1] 875).
$\mathbf{C_{10}H_{13}O_5N_2Br}$	1) Verbindung (aus d. Verb. C ₁₀ H ₁₄ O ₅ N ₂). Sm. 157° (Soc. 85, 332 C. 1904 [1] 807, 1440).
$C_{10}H_{14}ONC1$	6) γ -Chlor- α -[4-Methylphenyl]amido- β -Oxypropan. Sm. 81—82° (B. 37, 3035 C. 1904 2 1213).
$\mathbf{C_{10}H_{14}ONJ}$	4) Jodmethylat d. 2-Dimethylamidobenzol-1-Carbonsäurealdehyd. Sm. 163,5° (B. 37, 978 C. 1904 [1] 1079).
$\mathbf{C_{10}H_{14}O_{2}N_{2}Br_{2}}$	2) Verbindung (aus Pilocarpin). (HBr, Br ₂) (C. r. 97, 1435). — III, 925.
$\mathbf{C_{10}H_{14}O_{3}NCl}$	*1) a-Chlor-a'-Nitrocampher (C. 1903 [2] 374).
$\mathbf{C_{10}H_{14}O_{3}NBr}$	*4) n-Bromeamphoryloxim (n-Brom-a-Isonitrosocampher) (Soc. 83, 967 C. 1903 [1] 1611 C. 1903 [2] 666).
	7) β -Bromeamphoryloxim $+$ H_2O . Sm. 112° (Soc. 83, 966 C. 1903 [1] 1411 C. 1903 [2] 666).
	8) β -Brom- α' -Nitrocampher. Sm. 114° (Soc. 83, 964 C. 1903 [2] 665). 9) Pseudo- β -Brom- α' -Nitrocampher. Sm. 132° u. Zers. K $+$ 2H ₂ ()
	(Soc. 83, 965 C. 1903 [1] 1411; C. 1903 [2] 665).
$\mathbf{C_{10}H_{14}O_{8}NJ}$	*1) Jodmethylat d. Damascenin + H ₂ O. Sm. 172173° wasserfrei (Ar. 242, 318 C. 1904 [2] 457).
$\mathrm{C_{10}H_{14}O_{5}NP}$	1) Trimethylester d. Phenylamidophosphinsäure-3-Carbonsäure. Sd. 184—186° (A. 326, 243 C. 1903 [1] 868).
	2) Trimethylester d. Phenylamidophosphinsäure-4-Carbonsäure. Sd. 166-167° (A. 326, 244 C. 1903 [1] 868).
$\mathbf{C}_{10}\mathbf{H}_{14}\mathbf{O}_{5}\mathbf{N}_{3}\mathbf{C}\mathbf{I}$	 γε-Lakton d. ζ-Lakton-β-Semicarbazon-ε-Oxyhexan-αγ-Dicar- bonsäure-α-Methylester. Sm. 132—133 ° (C. r. 136, 436 C. 1903)
$C_{10}H_{15}OBrMg$	[1] 698). 1) Magnesiumbromcampher. $+ (C_2H_5)_2O$ (B. 36, 2614 C. 1903)
$\mathrm{C_{10}H_{15}O_{2}NS}$	[2] 623). *2) Diäthylamid d. Benzolsulfonsäure. Sm. 42—43° (B. 36, 2706)
$\mathbf{C_{10}}\mathbf{H_{15}}\mathbf{O_{2}}\mathbf{N_{2}}\mathbf{Cl}$	 C. 1903 [2] 829). 3) Chlorpernitrosocampher. Sm. 192° (C. 1903 [2] 373). 4) Isochlorpernitrosocampher. Sm. 75°. K (C. 1903 [2] 373). 5) Pseudochlorpernitrosocampher. Sm. 90°. HCl, Pikrat (C. 1903 [2] 373).

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$\mathbf{C_{10}H_{15}O_{2}N_{2}Cl}$	6) Verbindung (aus Pseudochlorpernitrosocampher). Sm. 80° (C. 1903 [2] 374).
$\dot{\mathbf{C}}_{10}\mathbf{H}_{15}\mathbf{O}_{2}\mathbf{N}_{2}\mathbf{Br}$	*1) g-Brompernitrosocampher. Sm 1140 (C 1904 [2] 1697)
$\mathbf{C}_{10}\mathbf{H}_{15}\mathbf{O}_{8}\mathbf{NS}$	*2) β-Brompernitrosocampher. Sm. 67° (C. 1904 [2] 1697). 10) Amid d. 4-Oxy-1-Aethylbenzoläthyläther-P-Sulfonsäure. Sm.
	118° (B. 36, 3594 C. 1903 [2] 1366). 11) Methylamid d. 1-[α-Oxyisopropyl]benzol-2-Sulfonsäure. Sm.
O TT O THE	105—106° (B. 37, 3264 C. 1904 [2] 1031).
$egin{array}{l} \mathrm{C_{10}H_{15}O_4BrS} \ \mathrm{C_{10}H_{15}O_5N_2P} \end{array}$	3) l-Bromcamphersulfonsäure. NH ₄ (Soc. 79, 76). — *III, 371. 1) 3-Nitrophenylmonamid d. Phosphorsäurediäthylester. Sm. 120°
O101115O51421	(A. 326, 237 C. 1903 [1] 867).
$\mathbf{C_{10}H_{15}O_{5}N_{8}J_{2}}$	1) Aethylester d. Dijodacetyldi Amidoacetyl amidoessigsäure. Sm. 190° u. Zers. (B. 37, 1296 C. 1904 [1] 1336).
$C_{10}H_{15}O_5BrS$	*1) Bromdihydrocampholensulfocarbonsäure. Sm. 155° u. Zers.
10 10 0	(Soc. 83, 1110 C. 1903 [2] 794).
$C_{10}H_{15}O_6N_4C1$	1) Chloracetyltri[Amidoacetyl]amidoessigsäure. Sm. 256° u. Zers. (B. 37, 2507 C. 1904 [2] 427).
$C_{10}H_{16}ONCl$	*7) Pinennitrosylchlorid. Sm. 115° (Soc. 85, 759 C. 1904 [2] 220, 524). *11) β -Chlorcampheroxim. Sm. 127° (C. 1903 [2] 373).
$C_{10}H_{16}OCl_2Hg_2$	
	C. 1903 [2] 1362).
$\mathbf{C_{10}H_{16}O_{2}NCl}$	4) sec. 1-Nitrohydrochlorpinen. Sm. 136—142° (C. 1903 [1] 513).
C EF O NTD	5) tert. Nitrohydrochlorpinen. Sm. 195—200° (C. 1903 [1] 513).
$ ext{C}_{10} ext{H}_{16} ext{O}_2 ext{NBr} \ ext{C}_{10} ext{H}_{16} ext{NClS}$	3) Bromnitrodihydrocamphen. Sm. 158—172° (C. 1903 [1] 513). 1) Chlormethylat d. 4-Merkapto-2,6-Dimethylpyridin-4-Aethyl-
010111614 016	äther. Sm. 136° (A. 331, 259 C. 1904 [1] 1223).
$\mathbf{C_{10}H_{16}NClSe}$	1) Chlormethylat d. 4-Seleno-2, 6-Dimethylpyridin-4-Aethyläther. Sm. 126° (A. 331, 263 C. 1904 [1] 1223).
$C_{10}H_{16}NJS$	1) Jodmethylatd. 4-Merkapto-2,6-Dimethylpyridin-4-Aethyläther.
10 10	Sm. 154° u. Zers. (A. 331, 259 C. 1904 [1] 1223).
$\mathrm{C_{10}H_{16}NJSe}$	1) Jodmethylat d. 4-Seleno-2, 6-Dimethylpyridin-4-Aethyläther. Sm. 155 (A. 331, 263 C. 1904 [1] 1223).
$\mathbf{C}_{10}\mathbf{H}_{17}\mathbf{O_{3}N_{3}S}$	1) 2-Thiocarbonyl-4-Keto-3,5,5-Trimethyltetrahydroimidazol-1- α-Amidoisobuttersäure. Sm. 129° (C. 1904 [2] 1028).
$\mathbf{C_{10}H_{17}O_4N_2Br}$	1) a-Bromisocapronylamidoacetylamidoessigsäure. Sm. 144—145° (B. 36, 2989 C. 1903 [2] 1112).
$\mathbf{C_{10}H_{18}ONCl}$	*1) Menthennitrosochlorid. Sm. 117° (B. 37, 1375 C. 1904 [1] 1441).
$C_{10}H_{18}ONJ$	2) Dihydroeucarvoximhydrojodid. Sm. 161—162° (B. 31, 2071).
	*III, 375.
$\mathbf{C_{10}H_{18}O_{2}NCl}$	4) i-Terpineolnitrosochlorid. Sm. $120-122^{\circ}(Soc. 85, 666 C. 1904[2]330)$.
	5) isom. i-Terpineolnitrosochlorid. Sm. 102—103° (C. 1901 [1] 1008).
	6) Chlormethylat d. Methylscopolin. Sm. noch nicht bei 250°.
C H O N O	2 + PtCl ₄ , + AuCl ₃ (Ar. 236, 30) *III, 619. *1) Bistrimethyläthylennitrosochlorid (B. 36, 1765 C. 1903 [2] 100).
$egin{array}{l} \mathbf{C_{10}H_{20}O_2N_2Cl_2} \\ \mathbf{C_{10}H_{20}O_2N_2Br_2} \end{array}$	1) bim. β -Brom- γ -Nitroso- β -Methylbutan. Sm. 67° (B. 37, 534 C .
010112002112112	1904 [1] 864).
$\mathbf{C}_{10}\mathbf{H}_{22}\mathbf{ONCl}$	1) Chloräthylat d. 3,4,4,6-Tetramethyltetrahydro-1,3-Oxazin.
G 77 37G1 70	2 + PtCl ₄ , + AuCl ₃ (M. 25, 840 C. 1904 [2] 1240).
$\mathrm{C_{10}H_{22}NCl_{2}P}$	1) Diamylamidodichlorphosphin. Sd. 140% (A. 326, 157 C. 1903) [1] 761).
$\mathbf{C_{10}H_{24}O_{3}NP}$	1) Dipropylmonamid d. Phosphorsäurediäthylester. Sd.105—110° ₁₂ (A. 326, 185 C. 1903 [1] 820).
$\mathbf{C_{10}H_{25}ON_{2}P}$	1) Aethyläther d. Di[Diäthylamido]oxyphosphin. Sd. 105—108° ₂₈
$C_{10}H_{25}O_2N_2P$	(A. 326, 161 <i>O.</i> 1903 [1] 761). 1) Di[Diäthylamid] d. Phosphorsäuremonoäthylester. Sd. 140° ₁₅
	(A. 326, 195 C. 1903 [1] 820).
$\mathbf{C}_{10}\mathbf{H}_{26}\mathbf{O}_3\mathbf{N}_2\mathbf{Cl}_2$	*1) Di[Chlormethylat] d. Di[Dimethylamidomethoxylmethyl]äther. $2 + PtCl_4$ (A. 334, 18 C. 1904 [2] 947).
	_ 10 V _

C₁₀H₈O₄N₂Cl₄S₂ 1) Di[Dichloramid] d. Naphtalin-2,7-Disulfonsäure. Sm. 165° (*C.* 1904 [2] 435). C₁₀H₇O₂NCl₂S 19) Dichloramid d. Naphtalin-1-Sulfonsäure. Sm. 91° (*C.* 1904 [2] 435).

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C₁₀H₇O₂NCl₂S 20) Dichloramid d. Naphtalin-2-Sulfonsäure. Sm. 686 (C. 1904 [2] 435). 1) 2,4-Dichlor-1-Amidonaphtalin-?-Sulfonsäure (D.R.P. 153298

C10H7O8NCl2S C. 1904 [2] 750). *6) 8-Chlor-I-Amidonaphtalin-5-Sulfonsäure (D.R.P. 147852 U. 1904 C10H8O8NCIS

[1] 133). 1) 8-Chlor-1-Amidonaphtalin-3, 6-Disulfonsäure (D.R.P. 147852 C. C₁₀H₈O₆NClS₂ 1904 [1] 133).

1) 2-Chlorid d. 4-Nitrobenzol-1-Carbonsäurepropylester-2-Sulfon-C₁₀H₁₀O₆NClS saure. Sm. 76° (Am. 30, 390 C. 1904 [1] 276).

C₁₀H₁₃O₈NBr₂S 1) 4-Aethoxylphenylamid d. $\alpha\beta$ -Dibromäthan- α -Sulfonsäure. Sm. 139° (B. 36, 3633 C. 1903 [2] 1327).

C₁₀H₁₄O₂NCl₂P 1) 2,4-Dichlorphenylmonamid d. Phosphorsäurediäthylester. Sm. 106° (A. 326, 229 C. 1903 [1] 867).

C₁₀H₁₄O₃NBr₂P 1) 2,4-Dibromphenylmonamid d. Phosphorsäurediäthylester. Sm. 114° (A. 326, 235 C. 1903 [1] 867).

 $C_{10}H_{15}O_{2}NClBr$ 1) Bromnitrohydrochlorpinen. Sm. 105—110° (C. 1903 [1] 513). $C_{10}H_{20}ON_2ClP$ 2) 1,1'-Dipiperidid d. Phosphorsäuremonochlorid. Sm. 184'12 (A. 326, 196 C. 1903 [1] 820.
1) 1,1-Dipiperidid d. Thiophosphorsäuremonochlorid.

C₁₀H₂₀N₂ClSP Sm. 98°

(A. 326, 217 C. 1903 [1] 822). $C_{10}H_{22}ONCl_2P$ *1) Diisoamylmonamid d. Phosphorsäuredichlorid. Sd. 150 $^{\circ}_{12}$ (A. **326**, 186 C. **1903** [1] 820).

C₁₀H₂₂NCl₂SP *1) Diamylmonamid d. Thiophosphorsäuredichlorid. Sd. 160-163°, (A. 326, 213 C. 1903 [1] 822).

1) Diisobutylmonamid d. Aethylphosphorsäuremonochlorid. Fl. C₁₀H₂₃O₂NClP (A. 326, 193 O. 1903 [1] 820).

1) Di[Diäthylamid] d. Thiophosphorsäuremonoäthylester. Sd. 149 $\mathbf{C_{10}H_{25}ON_{2}ClS}$ bis 151° (i.V.) (A. 326, 162 C. 1903 [1] 761).

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 $C_{11}H_{12}$ 5) Phenocyklohepten. Sd. 234° (Soc. 83, 247 C. 1903 [1] 586, 882). *4) α-Phenyl-γ-Methyl-α-Buten. Sd. 201—202° (207° 157) (B. 37, 1088 C. 1904. C,1 H,4 [1] 1260; B. 37, 2316 C. 1904 [2] 217).

*6) 4-Isopropylphenyläthen. Sd. 76°₁₀ (B. 36, 1640 C. 1903 [2] 27).

*8) 2,4,5-Trimethylphenyläthen. Sd. 97°₁₈ (B. 36, 1641 C. 1903 [2] 27).

*11) 2,4,6-Trimethylphenyläthen. Sd. 206—207°₇₅₅ (B. 36, 1644 C. 1903 [2] 27).

*15) δ-Phenyl-β-Methyl-β-Buten. Sd. 205° (B. 37, 2314 C. 1904 [2] 217). 16) α-Phenyl-β-Penten. Sd. 201° (B. 37, 2313 C. 1904 [2] 216).

17) γ-Phenyl-β-Penten. Sd. 197—198°, 53 (B. 36, 3692 C. 1903 [2] 1426; Bl. [3] 31, 755 C. 1904 [2] 303).
18) δ-Phenyl-β-Methyl-β-Buten. Sd. 114°, (B. 37, 2313 C. 1904 [2] 216).
19) β-Phenyl-γ-Methyl-α-Buten. Sd. 191—192°, (B. 36, 3691 C. 1903 [2] 1426. [2] 1426)

20) α-[4-Methylphenyl]-α-Buten. Sd. 210-212° (B. 36, 2237 C. 1903 |2|438). 21) α-[4-Aethylphenyl] propen. Sd. 216-218° (B. 36, 2236 C. 1903 | 2 | 438).

22) α-[2,4-Dimethylphenyl]propen. Sd. 206-208° (B. 36, 2236 C. 1903 [2] 437).

23) α-[3,4-Dimethylphenyl]propen. Sd. 224-226 (B. 36, 2236 C. 1903 [2] 437; B. 37, 1090 Anm. C. 1904 [1] 1260).

C, H,

*2) Isoamylbenzol. Sd. 198—199°₇₅₇ (B. 37, 2317 C. 1904 [2] 217).
*3) tert. Amylbenzol. Sd. 187°₇₅₃ (A. 327, 223 C. 1903 [1] 1408).
*4) γ-Phenylpentan. Sd. 187°₇₅₃ (B. 31, 3693 C. 1903 [2] 1427).
*12) 4-Isopropyl-1-Aethylbenzol. Sd. 196°₇₀₃ (B. 36, 1640 C. 1903 [2] 27).
*19) 5-Aethyl-1, 2, 4-Trimethylbenzol. Sd. 208°₇₆₉ (B. 36, 1642 C. 1903 [2] 27).
*20) 2-Aethyl-1, 3, 5-Trimethylbenzol. Sd. 207 - 208°₇₅₅ (B. 36, 1644 C. 1903 [2] 27). [2] 27; B. 37, 1717 C. 1904 [1] 1489).
*22) \alpha-Laurol (G. 33 [1] 407 C. 1903 [2] 566).

33) γ -Phenyl- β -Methylbutan. Sd. 188–189 $^{\circ}_{768}$ (B. 36, 3691 C. 1903 [2] 1426).

*6) \(\beta\)-Undekin. Sd. 199-201° (B. 36, 2551 C. 1903 [2] 654). C,, H, 13) Kohlenwasserstoff (aus I-Oxy-1-Isoamylhexahydrobenzol). Sd. 194 $^{\circ}_{760}$ (C. r. 138, 1323 C. 1904 [2] 219; C. r. 139, 344 C. 1904 [2] 704). *8) β -Undeken. Sd. 78,5 $^{\circ}_{14}$ (B. 36, 2548 C. 1903 [2] 654). C11 H22

- 11 II -

C1, H6O5 C 60,5 — H 2,7 — O 36,7 — M. G. 218.

1) Purpurogallon. Sm. 262—264° (Soc. 83, 197 C. 1903 [1] 402, 640). 2) Isopurpurogallon (Soc. 83, 198 C. 1903 [1] 402, 640).

*1) Nitril d. Naphtalin-1-Carbonsaure. Sm. 37-38°; Sd. 295-297° (B. 37, 2817 C. 1904 [2] 649). C_1, H_7N

*4) Naphtalin-1-Carbonsäure (B. 37, 627 C. 1904 [1] 810). $C_{11}H_8O_2$

C₁₁H₈O₈ *2) 2-Phenyl-1,3-Diketo-2,3-Dihydroinden. Cu (B. 37, 3383 C. 1904 2] 1219).

23) Phenylester d. Furan-2-Carbonsäure. Sm. 41,5° (B. 37, 2951 C. 1904) [2] 993)

*17) Verbindung (aus d. Aldehyd d. 2-Brommethylfuran-5-Carbonsäure). Sm. 117° (C. 1903 [1] 421; Soc. 83, 187 C. 1903 [1] 421, 670). 23) 4-Keto-3-Acetyl-1, 2-Benzpyron? Sm. 132° (D.R.P. 102746 C. 1899) C,1 H,0,4

[2] 408). — *II, 1134. 24) Methylester d. 1, 2-Benzpyron-6-Carbonsäure. Sm. 174° (B. 37, 196 C. 1904 [1] 661).

25) Acetat d. 4-0xy-1, 2-Benzpyron. Sm. 103° (B. 36, 465 C. 1903 [1] 636).

Verbindung (aus Phloroglucin u. Furfurol) (B. 35, 4443 C. 1903 [1] 422; B. 37, 315 C. 1904 [1] 697).
Purpurogallin. Sm. 274—275° u. Zers. K (Soc. 83, 194 C. 1908 [1]

C11HgOs

639; Soc. 85, 245 C. 1904 [1] 798, 1005; C. 1904 [1] 927).
*1) α-[3,4-Dioxyphenyl]äthen-3,4-Methylenäther-ββ-Dicarbonsäure. Sm. 187—189°. Ca + 2 ½ H₂O (C. 1904 [1] 880).
11) Nitril d. 2-Methylchinolin-3-Carbonsäure. Sm. 125—127° (J. pr. Carbonsäure. Sm. Carbonsäure. Sm. Carbonsäure. Sm. 125—127° (J. pr. Carbonsäure. Sm. Carbonsäure. Sm. Carbonsäure $C_{11}H_8O_6$

 $C_{11}H_8N_2$ [2] **67**, 507 *C.* **1903** [2] **2**52).

6) 2-Methylenamidonaphtalin. Sm. 62-64° (B. 35, 4167 C. 1903 [1] C11H9N 172).

7) polym. 2-Methylenamidonaphtalin. Sm. 203° (B. 35, 4168 C. 1903

2) 6-Amido-2-Phenylpurin (B. 37, 2271 C. 1904 [2] 199) $\mathbf{C}_{11}\mathbf{H}_{9}\mathbf{N}_{5}$

10) γ -Keto- α -Phenyl- α -Pentin. Sm. 8-10°; Sd. 137-138° (C. r. 137, $C_{11}H_{10}O$ 796 C. **1904** [1] 43).

*4) α -Phenyl- α γ -Butadiën- δ -Carbonsäure. Sm. 166°. NH₄ (A. 336, $C_{11}H_{10}O_{2}$ 196 C. 1904 [2] 1731).

*17) Aethylester d. Phenylpropiolsäure. Sd. 151—152°₁₂₋₁₃ (Soc. 83, 1161 C. 1903 [2] 1370).

31) 7-Oxy-3-Aethyl-1, 2-Benzpyron. Sm. 123-124° (B. 37, 2383 C. 1904) C11H10O8

32) αγ-Lakton d. βγ-Dioxy-α-Phenyl-α-Buten-α-Carbonsäure (Methyl-rh-nyltotron-"mr. Sn. 178° (B. 36, 2255 C. 1903 [2] 437).

*3) 5,'.-Dirmett, Littley cf. 5,7-Dioxy-1, 2-Benzpyron (Citropten). Sm. 146 bis 147° (Ar. 242, 290 C. 1904 [2] 105).
*16) α-Phenylpropen-βγ-Dicarbonsäure. Sm. 180° u. Zers. (M. 24, 367) C11H1004

C. 1903 $[\tilde{2}]$ 496).

*21) cis-1-Phenyl-R-Trimethylen-trans-2, 3-Dicarbonsaure. Sm. 1750 (J. pr. [2] 68, 163 C. 1903 [2] 760; B. 36, 3780 C. 1904 [1] 42). *33) r-Phenylisoparakonsäure. Sm. 170°. Ba (A. 330, 329, 332 C. 1904

[1] 928).

*39) d Phénylparakonsäure $+ \frac{1}{4}H_2O$. Sm. 1340 (wasserfrei) (A. 330, 347 *C.* **1904** [1] 929).

*40) 1-Phenylparakonsäure + 1/4 H2O. Sm. 1340 (wasserfrei) (A. 330, 347 C. 1904 [1] 929).

*43) Methyester d. αγ-Diketo-α-Phenylpropan-γ-Carbonsäure (Ph. Ch. 23, 311). — *II, 1074.

44) Dimethyläther d. 7,8 - Dioxy-1, 4-Benzpyron + H₂0. Sm. 124° (wasserfrei) (B. 36, 128 C. 1903 [1] 468).

45) α-[3,4-Dioxyphenyl]äthin-3,4-Dimethyläther-β-Carbonsäure (3,4-C11H10O4 Sm. 149° u. Zers. (C. 1903 [1] 580; Dimethoxylphenylpropiolsäure). Soc. 85, 165 C. 1904 [1] 724). 46) cis-1-Phenyl-R-Trimethylen-cis-trans-2, 3-Dicarbonsäure. Sm. 1216 (B. 36, 3782 C. 1904 [1] 42). 47) d-Phenylisoparakonsäure. Sm. 182° (A. 330, 339 (4 1904 [1] 929). 48) 1-Phenylisoparakonsäure. Sm. 182° (A. 330, 339 (4 1904 [1] 929). 18) α -[4-Oxyphenyl]äthenmethyläther- $\beta\beta$ -Dicarbonsäure. Sm. 185 bis C11H10O5 190° (B. 31, 2607). — *II, 1131. 19) Dimethylester d. Benzol-1-Carbonsäure-2-Ketocarbonsäure. Sm. 66 bis 68° (M. 24, 922 C. 1904 [1] 514). 14) α -[3,4-Dioxyphenyl]äthan-3,4-Methylenäther- $\beta\beta$ -Dicarbonsäure. Sm. 142—143° u. Zers. Ca + ½H₂O, Ba + 3H₂O (C. 1904 [1] 879). 15) α -Phenyläthan- β , 2, 4-Tricarbonsäure. Sm. 265—266° (A. 293, 171). $C_{11}H_{10}O_{6}$ - *II, *1171*. 13) 3-Methyl-6-Phenyl-1, 2-Diazin. Sm. 104-105°; Sd. 185°₁₀₋₂₀. HCl, (HCl, HgCl₂), (2HCl, PtCl₄), (HCl, AuCl₃), Chromat (B. 36, 492 U. 1903) $C_{11}H_{10}N_2$ [1] 653). *6) 1-[4-Methylphenyl]pyrrol. Sm. S2°; Sd. 252°, r29,5 (B. 37, 2795 C. 1904 $C_{11}H_{11}N$ *15) 2,4-Dimethylchinolin (B. 37, 1325 C. 1904 [1] 1359).
32) 1-[2-Methylphenyl]pyrrol. Sd. 246° (B. 37, 2795 C. 1904 [2] 531).
33) 2-[2-Methylphenyl]pyrrol. Sd. 284° (B. 37, 2796 C. 1904 [2] 531). 34) 2-[4-Methylphenyl]pyrrol. Sm. 153°; Sd. 294° (B. 37, 2796 C. 1904 17) 2,2-Dimethyl-1,2-Benzpyran. Sd. 97°₁₄ (B. 37, 494 C. 1904 [1] 805). C,, H,2O *2) Methyläther d. γ -Keto- α -[4-Oxyphenyl]- α -Buten. - $|-2\Pi_3P()_4$, C11 H12 O2 + Chloressigsäure (C. 1903 [2] 284). *3) αy -Diketo- α -Phenylpentan. Sd. 150—155 $^{\circ}_{18}$. Ou (C. r. 139, 209 C. 1904 [2] 649). *28) Aethylester d. β -Phenylakrylsäure. 3 + Sb Ω_5 , -[- Fe Ω_3 , 2 | Sn Ω_4 (B. 37, 3667 C. 1904 [2] 1569). *31) β-[2,4-Dimethylphenyl]akrylsäure. Sm. 176-1770. Ag (G. 34 [2] 116 C. 1904 [2] 1214). 34) η-Keto-α-[6-Oxy-3-Methylphenyl]-α-Buten. Sm. 128--129 (B. 37, 3186 C. 1904 [2] 991). 35) Dimethyl-m-Biscyklohexenon. Sm. 125-127° (B. 36, 2162 C. 1903 2] 370). 36) β -[4-Methylphenyl]propen- α -Carbonsäure. Sm. 136° (C. r. 138, 986 Anm. C. 1904 [1] 1439). 38) Methylester d. β-Phenylpropen-a-Carbonsäure. Sm. 28"; Sd. 259 bis 260° (C. r. 138, 987 C. 1904 [1] 1439). 39) polym. Aethylester d. β-Phenylakrylsäure (B. 35, 4152 C. 1903 [1] 159). $C_{11}H_{12}O_{3}$ *1) 5-Oxy-2,4-Diacetyl-1-Methylbenzol. Sm. 106" (B. 36, 2162 C. 1903

[2] 370).

63) 3,4-Methylenäther-5-Methyläther d. 3,4,5-Trioxy-1-Allylbenzol

(Myristicin). Sd. 149,5°₁₅ (B. 36, 3446 C. 1903 [2(1176). 64) 3,4-Methylenäther-5-Methyläther d. 3,4,5-Trioxy-1-Propenylbenzol (Isomyristicin). Sm. 44-45° (30,2°); Sd. 142-449°; (B. 23, 180°; B. 36, 3447 C. 1903 [2] 1176; B. 36, 3454 C. 1903 [2] 1177). — III, 638; *III, 468.

65) β-Oxy-β-Phenylakryläthyläthersäure. Sm. 160° u. Zers. (t/. r. 138, 287 C. 1904 [1] 719).

66) Methylester d. β -Oxy- β -Phenylakrylmethyläthersäure. Sd. 154 bis 155°_{14} (C. r. 137, 261 C. 1903 [2] 664; C. r. 138, 208 C. 1904 [1] 659; Bl. [3] 31, 515 C. 1904 [1] 1602).

67) Acetat d. α -Oxy- β -Keto- α -Phenylpropan. Sd. 165-170 $^{0}_{49}$ (11. 33 [2] 261 C. 1904 [1] 24).

68) Acetat d. β. Oxyathylphenylketon. Sm. 54" (B. 36, 1354 C. 1903 [1] 1299).

- $C_{11}H_{12}O_4$ *1) 3,5-Diacetyl-2,6-Dimethyl-1,4-Pyron. Sm. 124°; Sd. oberh. 300°
 - (Soc. 85, 977 C. 1904 [2] 711). *15) isom. β -[2,4-Dioxyphenyl]akryl-2,4-Dimethyläthersäure. Sm. 184° (C. 1903 [1] 580; Soc. 85, 162 C. 1904 [1] 724).
 - *17) β -[3,4-Dioxyphenyl]akryl-3,4-Dimethyläthersäure (C. 1903 [1] 580; Soc. 85, 163 C. 1904 [1] 724).
 - *24) α-Phenylpropan-γ, 2-Dicarbonsäure. Sm. 122° (138°) (Soc. 83, 249 C. 1903 [1] 586, 882).
 - *47) 2-Aethylester d. Benzol-1-Carbonsäure-2-Methylcarbonsäure. Sm. 107—108° (M. 24, 949 C. 1904 [1] 916).
 - 64) 3,5-Dioxy-2,4-Diacetyl-1-Methylbenzol. Sm. 95° (G. 34 [2] 977 C. 1904 [2] 711).
 - 65) β-Methyläther-3,4-Methylenäther d. α-Keto-β-Oxy-α-[3,4-Dioxy-phenyl]propen. Sd. 173-174° (i. V.) (A. 332, 334 C. 1904 [2] 652).
 - 66) 4-Oxy-3,5-Diacetyl-5-Methyl-2-Methylen-1,2-Pyran. Sm. 750 (G. 34 [2] 979 C. 1904 [2] 711).
 - 67) 1,3,5-Trimethylbenzol-2,4-Dicarbonsäure. Sm. 2830 u. Zers. *II, 1072.
 - 68) 5-Oxy-1-Methylbenzoläthyläther-2-Ketocarbonsäure + H.O. Sm. 78° (C. 1904 [1] 1597).
 - 69) 3-Oxy-1-Methylbenzoläthyläther-4-Ketocarbonsäure. Sm. 144° (C. 1904 [1] 1597).
 - 70) 1 Methylen 2 Methyl R Penten 5 Carbonsäure 4 [Aethyl β -Carbonsäure]. Sm. 187° (B. 36, 951 C. 1903 [1] 1022).
 - 71) Porinsäure + H₂O. Sm. 218° (wasserfrei) (J. pr. [2] 68, 64 C. 1903
 - [2] 513). 72) a-[6-Aldehydo-3-Methylphenoxyl]propionsäure. Sm. 114-1150 (A. 312, 287). — *III, 65.
 - 73) α -Methylester d. α -Phenyläthan- $\alpha\beta$ -Dicarbonsäure. Sm. 102° (M. 24, 425 C. 1903 [2] 622).
 - 74) β -Methylester d. α -Phenyläthan- $\alpha\beta$ -Dicarbonsäure. Sm. 92° (M. 24,
 - 425 C. 1903 [2] 623).
 75) Dimethylester d. Benzol-1-Carbonsäure-2-Methylcarbonsäure.
 Sm. 39-42°; Sd. 173-176°₂₈ (M. 24, 939 C. 1904 [1] 515).
 76) 1-Aethylester d. Benzol-1-Carbonsäure-2-Methylcarbonsäure. Sm.

 - 111—113° (*M.* 24, 950 *C.* 1904 [1] 916). 77) Monobenzylester d. Bernsteinsäure. Sm. 59° (*B.* 35, 4077 *C.* 1903
 - 78) Verbindung (aus Ceropten). Sm. 52° (C. 1904 [1] 40).
- *3) β -[4-Oxy-3,5-Dimethoxylphenyl]akrylsäure. Sm. 1920 (B. 36, 1032) $C_{11}H_{12}O_{5}$ C. 1903 [1] 1223).
 - 43) 1,3-Diacetat d. 1,2,3-Trioxybenzol-2-Methyläther. Sm. 51-54° (M. 25, 814 C. 1904 [2] 1119).
- (M. 25, 514 C. 1904 [2] 1119.
 44) 2,3-Diacetat d. 1,2,3-Trioxybenzol-1-Methyläther. Sm. 91—93° (M. 25, 508 C. 1904 [2] 1118; M. 25, 812 C. 1904 [2] 1119.
 *10) Diäthylester d. Chelidonsäure. 2 + HgCl, 4 + 3 HgCl₂, + C₂H₅ONa (B. 37, 3737 C. 1904 [2] 1537; B. 37, 3751 C. 1904 [2] 1539).
 16) Carminsäure. K, Ba (Soc. 83, 138 1903 [1] 89, 466).
 17) Homomaticosäure. Sm. 96°. Ba + H₂O (B. 35, 4356 C. 1903 [1] 331).
 18) Organiza (una Phonylisanaral caragina). Ba (A. 330, 231 C. 1904 [1] 938). $C_{11}H_{12}O_6$
- 18) Oxysäure (aus Phenylisoparakonsäure). Ba (A. 330, 331 C. 1904 [1] 928). $C_{11}H_{12}O_7$ *8) 3, 4-Dioxybenzoldimethyläther-1-Carbonsäure-2-Oxyessigsäure. Sm. 215-217° (B. 36, 2319 C. 1903 [2] 443; M. 25, 891 C. 1904 [2]
- 1313). $\mathbf{C}_{11}\mathbf{H}_{12}\mathbf{N}_{2}$ *2) 3,4-Dimethyl-1-Phenylpyrazol. Sd. 277—278° (A. 331, 240 C. 1904 [1] 1221).
 - *7) 6-Methyl-1-Phenyl-1,4-Dihydro-1,2-Diazin. Sm. 196-1970 (B. 36,
- 1934 Anm. C. 1903 [2] 189). 6) Nitril d. 2-Methyl-1, 4-Phenylendi [Amidoessigsäure]. Sm. 100—103° $C_{11}H_{12}N_4$ (D.R.P. 145062 C. 1903 [2] 1037).
- 1) 2,3,5,6-Tetrabrom-4-Isopropyl-1-Aethylbenzol. Sm. 246° (B. 36, C, H, Br, 1640 C. 1903 [2] 27).
- *28) 1,2,5-Trimethylindol. Sm. 56—57° (D.R.P. 137117 C. 1903 [1] 110). 29) polym. 6-Methylenamido-1,2,3,4-Tetrahydronaphtalin. Sm. 164° $\mathbf{C_{11}H_{18}N}$ u. Zers. (Soc. 85, 734 C. 1904 [2] 116, 339).

208 -11 II. · 10) 3-Imido-2, 5-Dimethyl-1-Phenyl-2, 3-Dihydropyrazol. Pikrat (B. 36, $C_{11}H_{13}N_3$ 3290 *C.* **1903** [2] 1191). 11) 3-Imido-1, 5-Dimethyl-2-Phenyl-2, 3-Dihydropyrazol. (B. 36, 3282 C. 1903 [2] 1189). *5) Methyläther d. α -[4-Oxyphenyl]- α -Buten. Sd. 135—136 $^{\circ}_{26}$ (B. 37, $C_{11}H_{14}O$ 3998 C. 1904 [2] 1641). *6) Methyläther d. α -[4-Oxyphenyl]- β -Methylpropen. Sm. 8-9°; Sd. 123°₁₇ (B. 37, 4000 C. 1904 [2] 1641). *9) Aethyläther d. 4-Oxy-1-Allylbenzol. Sd. 224_{750}^{6} (D. R. P. 154654 C. 1904 [2] 1355). *20) Methyl-2,4,5-Trimethylphenylketon. + H₂SO₄ (R. 21, 355 C. 1903 [1] 151). *29) Aethyläther d. α-[4-Oxyphenyl]propen. Sm. 61°; Sd. 241° 750 (D.R.P. 154654 C. 1904 [2] 1355). 34) γ -[2-Oxyphenyl]- β -Penten. Sd. 215—216 $^{0}_{753}$ u. Zers. (Bl. [3] 29, 353 C. 1903 [1] 1222). 35) Methyläther d. α -[3-Oxyphenyl]- α -Buten. Sd. 128--129 $^{0}_{16}$ (B. 37, 3999 C. 1904 [2] 1641). 36) Methyläther d. β -[4-Oxyphenyl]- β -Buten. Sd. 233—236° (B. 37, 3997 *C.* **1904** [2] 1641). 37) Methyläther d. α-[4-Oxy-2-Methylphenyl|propen. Sd. 119---1210, a B. **37**, 3994 C. **1904** [2] 1640). 38) Methyläther d. α-[4-Oxy-3-Methylphenyl]propen. Sd. 121-123%, (B. **37**, 3992 C. **1904** [2] 1640). 39) Methyläther d. α-[6-Oxy-3-Methylphenyl]propen. Sd. 122-1210, (B. 37, 3995 C. 1904 [2] 1640). 40) Aethyläther d. α -[2-Oxyphenyl] propen. Sd. 230-231 $^{\circ}_{757}$ (B. 37, 3987 C. 1904 [2] 1639). 41) Aethyläther d. α -[3-Oxyphenyl] propen. Sd. 124-125° (B. 37, 3990 C. **1904** [2] 1639). 42) Propyläther d. β -Oxy- α -Phenyläthen. Sd. 238–241° (C. r. 138, 288 C. 1904 [1] 720; Bl. [3] 31, 528 C. 1904 [1] 1552). 43) Aldehyd d. 1-Pseudobutyl-3-Carbonsäure (B. 32, 2533). — *III, 44. *2) Dimethyläther d. 3,4-Dioxy-l-Allylbenzol (J. pr. |2| 68, 246 C $C_{11}H_{14}O_{2}$ 1903 [2] 1063). *4) Dimethyläther d. 3,4-Dioxy-I-Propenylbenzol. Pikrat (C. 1904) 2] 954). *26) 1-Pseudobutylbenzol-4-Carbonsäure. Sm. 164° (Bl. 131-31, 969 C. 1904 [2] 1112). *55) Isobutyl-4-Oxyphenylketon. Sm. 97—98° (B. 36, 3891 C. 1904 [1] 93). *56) Propyl-6-Oxy-3-Methylphenylketon. Sm. 34° (B. 36, 3892 (/. 1904 [1] 93). 67) Dimethyläther d. α -[2,5-Dioxyphenyl]propen. Sd. 132--135 $^{n}_{14}$ (B. **36**, 858 *C*. **1903** [1] 1084) 68) Dimethyläther d. β -[2,5-Dioxyphenyl]propen. Sd. 124 125 $^{\circ}_{15}$ (B. 37, 3997 C. 1904 [2] 1641). 69) Dimethyläther d. β -[3,4-Dioxyphenyl]propen. Sd. 253--254* (C. r. 139, 140 C. 1904 [2] 593). 70) Methyläther d. γ -Keto- α -[4-Oxyphenyl]butan. Sd. 160 $^{\circ}_{22}$ (A. 330, 236 *C.* **1904** [1] 945). 71) Methyläther d. Aethyl-4-Oxy-2-Methylphenylketon. Sm. 43°; Sd. 149—150°₁₄ (B. 37, 3993 C. 1904 [2] 1640). 72) Methyläther d. Aethyl-4-Oxy-3-Methylphenylkoton.

Sd. $169-171^{\circ}_{25}$ (B. 37, 3991 C. 1904 [2] 1640). 73) Methyläther d. Aethyl-6-Oxy-3-Methylphenylketon. Sd. $149-151^{\circ}_{17}$

(B. 37, 3994 C. 1904 [2] 1640). 74) Aethyläther d. Methyl-4-Oxy-2-Methylphenylketon. Sm. 22°;

Sd. 195% (C. 1904 [1] 1597). 75) Aethyläther d. Methyl-2-Oxy-4-Methylphenylketon. Sm. 71°;

Sd. 140°_{to} (C. 1904 [1] 1597).

76) γ-Phenylvaleriansäure. Sm. 13°; Sd. 210°₈₅. Ca, Al (C. 1904 [1] 1416).

77) Aethylester d. 3-Methylnorcaradiëncarbonsäure. Sd. 122-126° ... (B. 36, 3514 C. 1903 [2] 1275).

- $C_{11}H_{14}O_{2}$ 78) Acetat d. 2-Oxymethyl-1, 4-Dimethylbenzol. Sd. 242—243° (G. 32) [2] 485 C. 1903 [1] 831).
- C11H14O, 79) 3,4-Methylenäther-5-Methyläther d. 3,4,5-Trioxy-1-Propylbenzol (Dihydromyristicin). Sd. 149-150°₁₇ (B. 36, 3449 C. 1903 [2] 1176). 80) 1-Keto-2,4-Diacetyl-5-Methyl-1,2,3,4-Tetrahydrobenzol. Sm. 75°

(B. 36, 2159 C. 1903 [2] 370).

- 81) Dimethyläther d. α -Keto- β -Oxy- α -[4-Oxyphenyl]propan. Sd. 160° (A. 332, 329 C. 1904 [2] 651).
- 82) Dimethyläther d. β -Keto- α -[3,4-Dioxyphenyl]propan. Sd. 195 bis 200°_{11} (A. 332, 336 C. 1904 [2] 652).
- 83) δ -Phenyl- β -Methylbutan- $\beta\gamma$ -Ozonid. Fl. (B. 37, 845 C. 1904 [1] 1144). 84) β -Oxy- β -Phenylvaleriansaure. Sm. 118—121°. Ca, Ba (C. 1904 [1] 1343).
- 85) Aldehyd d. 3,4-Dioxybenzol-3-Isobutyläther-1-Carbonsäure. Sm. 94° (D.R.P. 85196). — *III, 74.
- 86) Aethylester d. α-Oxy-β-Phenylpropionsäure. Sd. 126° (B. 37, 1268) C. 1904 [1] 1334).
- $C_{11}H_{14}O_{4}$ *11) 2,4-Dioxybenzoldiäthyläther-1-Carbonsäure. Sm. 99-1020 (M. 24,
 - 893 C. 1904 [1] 512). *23) Aethylester d. 2, 4-Dioxybenzol-4-Aethyläther-1-Carbonsäure. Sm. 53-54° (M. 24, 890 C. 1904 [1] 512).
 - 33) Isobutyl-2, 3, 4-Trioxyphenylketon. Sm. 108° (D.R.P. 49149, 50451). • *III, *122*.
 - 34) Propyl-2,4,6-Trioxy-3-Methylphenylketon. Sm. 161-1620 (A. 329, 318 *C.* **1904** [1] 799).
 - 35) Trimethyläther d. 2,3,4-Trioxyphenylketon. Sd. 1740 (B. 36, 2191) C. 1903 [2] 384).
 - 36) $\beta\beta$ -Dioxy- β -Phenylpropiondimethyläthersäure. Na + 5H₂O (C. r. 137, 261 C. 1903 [2] 664). Zers, bei 95°.
 - 37) Methylester d. 3,5-Dioxy-1-Methylbenzoldimethyläther-2-Carbonsäure. Sm. 80-84° (M. 24, 896 C. 1904 [1] 512).
 - 38) Methylester d. 3,5-Dioxy-1-Methylbenzoldimethyläther-4-Carbonsäure. Sm. 31-37° (M. 24, 900 C. 1904 [1] 513). 39) Methylester d. Säure C₁₀H₁₂O₄. Sm. 115-117° (M. 24, 913 C. 1904
 - [1] 513).
 - 40) Aethylester d. α -Oxy- α -[4-Methoxylphenyl] essigsäure. Sm. 47 bis
 - 48° (B. 37, 3173 C. 1904 [2] 1303).
 41) Aethylester d. 2, 4-Dioxybenzoldimethyläther-1-Carbonsäure. Sd. 170°₁₈ (C. 1903 [1] 580; Soc. 85, 160 C. 1904 [1] 724).
 42) 2-Oxybenzoat d. αα-Dioxyäthan-α-A-thyläther (Aethoxyäthyliden-
 - salicylat). Fl. (D.R.P. 146849 C. 1903 [2] 1353).
- $C_{11}H_{14}O_{5}$ *4) Methylester d. 3,4,5-Trioxybenzoltrimethyläther-1-Carbonsäure. Sm. 80-82° (M. 25, 511 C. 1904 [2] 1118).
 - *13) Methylester d. 2,4,6-Trioxybenzoltrimethyläther-1-Carbonsäure. Sm. 67-70° (M. 24, 874 C. 1904 [1] 368).
 - 14) 2,4,6-Trioxy-1,3-Dimethylbenzol-2,4-Dimethyläther-5-Carbon-
 - säure. Sm. 125° (M. 24, 114 C. 1903 [1] 967). 15) Aethylester d. 5 Oxy-1, 4-Pyronisopropyläther-2-Carbonsäure (Ae. d. Komenisopropyläthersäure). Sm. 1230 (G. 33 [2] 266 C. 1904 [1] 45).
 - 16) Diäthylester d. γ-Keto-αδ-Pentadiën-αε-Dicarbonsäure. Sm. 49,5
 bis 50° (B. 37, 3296 C. 1904 [2] 1041).
- *1) Diäthylester d. Acetondioxalsäure. Sm. 104° (B. 37, 3734 C. 1904 C11H14O7 [2] 1537).
 - Diäthylester d. αε-Dioxy-y-Keto-αδ-Pentadiën-αε-Dicarbonsäure.
 Sm. 97,5—98,5°. Na₂, Ba (B. 37, 3735 C. 1904 [2] 1537).
- *3) $\alpha\beta$ -Dibromisoamylbenzol. Sm. 128° (B. 37, 1088 C. 1904 [1] 1260; $C_{11}H_{14}Br_2$ B. 37, 2316 C. 1904 [2] 217).
 - *8) 4,6-Dibrom-2-Aethyl-1,3,5-Trimethylbenzol. Sm. 59-60° (B. 37, 1718 C. 1904 [1] 1489).
 - *10) $\beta \gamma$ -Dibromisoamylbenzol. Sm. 66° (B. 37, 2315 C. 1904 [2] 217). 11) $\gamma \delta$ -Dibrom- γ -Phenyl- β -Methylbutan. Fl. (B. 36, 3691 C. 1903 [2] 1426).

 $C_{11}H_{16}O_2$

12) $\alpha\beta$ -Dibrom- α -[2,5-Dimethylphenyl] propan. Sd. 163–166° (B. 36, C, H, Br, 773 C. 1903 [1] 834).

13) 4- $[\alpha\beta$ -Dibrompropyl]-1, 3-Dimethylbenzol. Sd. 151-153% (B. 36,

2236 C. 1903 [2] 437).

*7) 1-Phenylhexahydropyridin. Sd. $257-258_{759}$. (2HCl, PtCl₄ + 2H₉O) C, H, N (B. 37, 3212 C. 1904 [2] 1238).

*12) 1-Aethyl-1, 2, 3, 4-Tetrahydrochinolin. Pikrat (B. 36, 2572 C. 1903 [2] 727)

33) α -[4-Dimethylamidophenyl] propen. Sm. 48° (B. 37, 1742 C. 1904 [1] 1599)

34) Methylallyl - 2 - Methylphenylamin. Sd. 215-220°. Pikrat (B. 37, 3897 C. 1904 [2] 1612).

35) 4-Methylallylamido-1-Methylbenzol (Methylallyl-4-Methylphenylamin). Sd. 230—232°. Pikrat (B. 37, 2719 C. 1904 [2] 592)

36) 6-Methylamido-1,2,3,4-Tetrahydronaphtalin. Sd. 267,5%, HCl, HNO_a (Soc. 85, 735 C. 1904 [2] 117, 339).

37) 1,8-Dimethyl-1,2,3,4-Tetrahydrochinolin. Sd. 238-240°. (2HCl, PtCl₄), Pikrat (B. 37, 22 C. 1904 [1] 522). 38) α -Cytisolidin. Fl. (2HCl, PtCl₄) (B. 37, 20 C. 1904 [1] 522). 39) β -Cytisolidin. (2HCl, PtCl₄) (B. 37, 21 C. 1904 [1] 522).

 $C_{11}H_{15}Cl$

6) γ -Chlor- γ -Phenylpentan. Fl. (B. 36, 3692 C. 1903 [2] 1426). 7) γ -Chlor- γ -Phenyl- β -Methylbutan. Fl. (B. 36, 3691 C. 1903 [2] 1426). *3) 4-Oxy-1-tert. Amylbenzol (A. 327, 207 C. 1903 [1] 1407; A. 327,

C11 H18O 219 C. 1903 [1] 1408). *25) Isoamyläther d. Oxybenzol. Sd. 215-220° (B. 36, 2062 C. 1903

[2] 357).

*31) δ -Oxy- δ -Phenyl- β -Methylbutan. Sd. 126 $^{\circ}_{31}$ (B. 37, 2316 C. 1904) [2] 217).

33) γ -Oxy- γ -Phenylpentan. Sd. 125—127 $^{\circ}_{10}$ (223—224 $^{\circ}_{782}$). Mg + (C₂H₅)₂O 138, 154 C. 1904 [1] 577).

34) β -Oxy- α -Phenyl- β -Methylbutan. Sd. 235—238° u. Zers. (C. 1904 [1] 1496).

35) γ -Oxy- γ -Phenyl- β -Methylbutan. Sd. 196—198 $^{\circ}_{760}$ (B. 36, 3691 C. 1903) [2] 1426).

36) β -Oxy- δ -Phenyl- β -Methylbutan. Sd. 121^{0}_{13} (B. 37, 2314 C. 1904) 2] 217).

37) Methyläther d. α -[3-Oxyphenyl]butan. Sd. 115—116 $^{\circ}_{10}$ (B. 37, 4000 C. 1904 [2] 1641).

38) Methyläther d. α -[4-Oxyphenyl] butan. Sd. 120% (B. 37, 3999 C. **1904** [2] 1641).

39) Methyläther d. β-[4-Oxyphenyl] butan. Sd. 106—108 $^{\circ}_{16}$ (B. 37, 3997) C. 1904 [2] 1641).

40) Methyläther d. 4-Oxy-3-Propyl-1-Methylbenzol. Sd. 216-2180 (B. 37, 3995 C. 1904 [2] 1640). 41) Methyläther d. 6-Oxy-3-Propyl-1-Methylbenzol. Sd. 222 ° (B. 37,

3993 C. 1904 [2] 1640). 42) Aethyläther d. 2-Oxy-1-Propylbenzol. Sd. 2130754 (B. 37, 3989)

C. 1904 [2] 1639). 43) Aethyläther d. 3-Oxy-1-Propylbenzol. Sd. 220—2240, 53 (B. 37, 3990) C. 1904 [2] 1639).

44) Aethyläther d. 4-Oxy-l-Propylbenzol. Sd. 108—110° (B. 37, 3990 C. 1904 [2] 1639).

45) Methylencampher. Sm. 30-35°; Sd. 218° (C. r. 136, 752 C. 1903 [1] 971; C. r. 136, 1223 C. 1903 [2] 116).

*6) Dimethyläther d. 3,4-Dioxy-l-Propylbenzol. Sd. 246-247° (B. 36, 860 C. 1903 [1] 1085).

 *9) Diäthyläther d. Dioxymethylbenzol. Sd. 220–222° (B. 37, 188 C. 1904 [1] 638).

*19) Oxymethylencampher. Sm. 79°; Sd. 105°₁₁. Na, Ca, Cu (*C. r.* 136, 1223 *C.* 1903 [2] 116; *B.* 36, 2635 *C.* 1903 [2] 626; *B.* 36, 4287 *C.* 1904 [1] 458; *B.* 37, 762 *C.* 1904 [1] 1085; *B.* 37, 2070 *C.* 1904 [2] 17; B. 37, 2180 C. 1904 [2] 223).

- *24) Aethylester d. α-Camphylsäure. Sd. 132 ° 70 (Soc. 83, 850 C. 1903 $C_{11}H_{16}O_{2}$ [2] 572).
 - 33) γ-Oxy-γ-[2-Oxyphenyl] pentan. Sm. 57° (Bl. [3] 29, 351 C. 1903 [1] 1222)
 - 34) 3-Methyläther d. α -Oxy- α -[3-Oxyphenyl] butan. Sd. 151—152 $^{0}_{15}$ (B. **37**, 3999 *C*. **1904** [2] 1641).
 - 35) 5-Methyläther d. 5-Oxy-2-[α-Oxypropyl]-1-Methylbenzol. Sd. 149 bis 151°₁₈ (B. 37, 3993 C. 1904 [2] 1640).
 - 36) 4-Methyläther d. 4-Oxy-3-[α-Oxypropyl]-1-Methylbenzol. Sd. 153 bis 154°₂₂ (B. 37, 3995 C. 1904 [2] 1640).
 37) 6-Methyläther d. 6-Oxy-3-[α-Oxypropyl]-1-Methylbenzol. Sd. 157°₂₀

 - (B. 37, 3991 C. 1904 [2] 1640). 38) Dimethyläther d. 2,5-Dioxy-1-Propylbenzol. Sd. 240% (B. 36, 857 C. 1903 [1] 1084).
 - 39) Dimethyläther d. 2,5-Dioxy-1-Isopropylbenzol. Sd. 114-116° (B. 37, 3997 C. 1904 [2] 1641).
 40) Dimethyläther d. 3,5-Dioxy-1-Propylbenzol. Sd. 136-137° (B. (B. 35-Dioxy-1-Propylbenzol. Sd. 136-137° (B. 35-Dioxy-

 - 36, 3450 C. 1903 [2] 1176). 41) 2-Aethyläther d. 2-Oxy-1-[\alpha-Oxypropyl]benzol. Sd. 129-130\(^0_{15}\) (B.

 - 37, 3988 C. 1904 [2] 1639).
 42) Oxymethylenisothujon. Sd. 128—132°₁₈ (A. 329, 126 C. 1903 [2] 1323).
 43) 2,4-Diketo-1,1,3,3,5-Pentamethyl-1,2,3,4-Tetrahydrobenzol. Sm. 59-62° (M. 24, 911 C. 1904 [1] 513).
 - 44) β -Metacopaïvasäure (oder $C_{16}H_{24}O_{3}$). Sm. 89-90° (Ar. 239, 555). *III, *419*.
- *2) 2,5-Dimethyläther d. 2,3,5-Trioxy-1-Propylbenzol. Sd. 149,5 bis $C_{11}H_{16}O_{8}$
 - 151°₁₂ (B. 36, 1718 C. 1903 [2] 114).

 *6) Camphocarbonsäure. Sm. 126—127° (129°) (B. 36, 208 C. 1903 [1] 515; B. 36, 669 C. 1903 [1] 771; B. 36, 1305 C. 1903 [1] 1224; B. 36, 2622 C. 1903 [2] 624; B. 36, 4289 C. 1904 [1] 456; B. 37, 2512 C. 1904 [2] 332).
 - 18) 2,5-Dimethyläther d. 2,5-Dioxy-1-[α-Oxyisopropyl]benzol. Sd. 138-141°₁₆ (B. 37, 3996 C. 1904 [2] 1641).
 19) Trimethyläther d. 2,4,6-Trioxy-1,3-Dimethylbenzol. Sm. 61° (M.
 - **24**, 108 *C*. **1903** [1] 967).
 - 20) 3-Aethyläther d. 2,3,5-Trioxy-1-Propylbenzol. Sm. 143° (B. 36, 1720 C. 1903 [2] 114).
 - 21) Säure (aus Carvon). Sm. 96—97° (C. 1904 [1] 1082). 22) Säure (aus Carvon). Sm. 137° (C. 1904 [1] 1082).

 - 23) Methylester d. 3-Keto-1-Methyl-2-Allyl-R-Pentamethylen-2-Carbonsäure. Sd. $114-115_{15}^{0}$ (C. r. 138, 210 C. 1904 [1] 663).
- $C_{11}H_{16}O_4$ *2) 3,4-Dimethyläther d. i-3,4-Dioxy-1- $[\alpha \beta$ -Dioxypropyl]benzol. Sm. 120—121° (B. 36, 3582 C. 1903 [2] 1363).
 - *3) 3,4-Dimethyläther d. isom. i-3,4-Dioxy-1-[$\alpha\beta$ -Dioxypropyl]benzol. Sm. 88—89° (B. 36, 3582 C. 1903 [2] 1363).
 - *14) 1-Oxy-5-Keto-2, 4-Diacetyl-1-Methylhexahydrobenzol (Methylenbisacetylaceton). Sm. 87-88° (B. 36, 2155 C. 1903 [2] 370; A. 332, 21 Anm. C. 1904 [1] 1565).
- *2) Anhydrid d $\cdot \gamma$ -Acetoxyl- $\beta \delta$ -Dimethylpentan- $\beta \delta$ -Dicarbonsäure. Sm. C11 H16 O5 89-90° (Bl. [3] 31, 118 C. 1904 [1] 643).
- 16) Acetoxyldioxydihydro-α-Camphylsäure. Sm. 185° u. Zers. (Soc. 83, $C_{11}H_{16}O_{6}$ 857 C. 1903 [2] 572).
- $C_{11}H_{16}N_{2}$ 13) Campherpyrazol. Sm. 149-150°. (2HCl, PtCl₄) (A. 329, 130 C. 1903 [2] 1323).
 - 14) Dihydrocarvonpyrazol. Fl. (2HCl, PtCl₄) (A. 329, 124 C. 1903 [2] 1323).

 - 15) Thujonpyrazol. Fl. (2HCl, PtCl₄) (A. 329, 125 C. 1903 [2] 1323).
 16) Isothujonpyrazol. Sm. 89—90°. (2HCl, PtCl₄) (A. 329, 126 C. 1903 [2] 1323).
- C, H, N *7) Methylisobutylamidobenzol (Methylisobutylphenylamin). bis 228 ° (Soc. 83, 1408 C. 1904 [1] 438).
 - *13) 5-Dimethylamido-1,2,4-Trimethylbenzol. Sd. 219°. (2HCl, PtCl₄) (Soc. 85, 236 C. 1904 [1] 1006).

11 11.	— 212 , —
$\mathbf{C_{11}H_{17}N}$	*20) Isobutylamidomethylbenzol (Isobutylbenzylamin). HJ (Soc. 83, 1414 C. 1904 [1] 438).
	*28) Aethylisopropylamidobenzol. Sd. 220°. (HCl, 4HgCl ₂), (2HCl, PtCl ₄) (J. pr. [2] 66, 473 C. 1903 [1] 561).
	33) 4-Amido-1-tert. Amylbenzol. Sd. 140142° ₁₃ (A. 327, 222 C. 1903 [1] 1408).
	34) Bornylisocyanid. Sm. 137° (Soc. 85, 1193 C. 1904 [2] 1125).
$C_{11}H_{18}O$	11) 4-[\$\beta\$-Ketopropyl]-1,1,5-Trimethyl-2,3-Dihydro-R-Penten (Methyl-campholenon). Sd. 210—212\(^0\) (\$B\$. [3] 31, 464 \$C\$. 1904 [1] 1516). 12) Vetirol. Sd. 174—176\(^0\) ₁₀ (D. R. P. 142416 \$C\$. 1903 [2] 229).
$C_{11}H_{18}O_{2}$	*7) Methylester d. Pulegensäure. Sd. 114—115° (4. 327, 126 C. 1903 [1] 1412).
	*15) Formiat d. Isoborneol. Sd. 103° ₁₆ (C. r. 136, 239 C. 1903 [1] 584). 35) Oxymethylentetrahydrocarvon. Sd. 131—135° ₁₆ (A. 329, 123 C. 1903
	[2] 1322). 36) Oxymethylenthujamenthon. Sd. 109—115%, (4. 329, 127 C. 1903
	[2] 1323).
	 37) Camphancarbonsäure. Sm. 69—71° (B. 35, 4417 C. 1903 [1] 330). 38) Methylester d. α-Nonin-α-Carbonsäure. Sd. 133—135°₂₁ (C. r. 136, 554 C. 1903 [1] 825).
	39) Aethylester d. ζ -Methyl- α -Heptin- α -Carbonsäure. Sd. 135—137 $_{80}^{0}$
	(C. r. 136, 554 C. 1903 [1] 825). 40) Aethylester d. 1,3-Dimethyl-1,2,3,4-Tetrahydrobenzol-2-Carbon-säure. Sd. 89-91 (D.R.P. 148206 C. 1904 [1] 485).
	41) Propylester d. α-Heptin-α-Carbonsäure. Sd. 133—134° ₁₇ (Bl. [3] 31, 508 C. 1904 [1] 1602).
	42) Amylester d. α-Pentin-α-Carbonsäure. Sd. 127—128 ° ₂₂ (C. r. 136, 553 C. 1903 [1] 824).
	43) Formiat d. Campholenalkohol. Sd. 215—216° (C. r. 138, 280 C. 1904 [1] 725).
	44) Formiat d. Geraniol. Sd. 104—105° ₁₀₋₁₁ (D.R.P. 80711; B. 29, 907
	Anm.). — III, 477; *III, 345. 45) Formiat d. Cyklogeraniol. Sd. 102—108° ₂₀ (D.R.P. 138141 <i>C.</i> 1903 [1] 267).
	46) Formiat d. Nerol. Sd. 119—121° ₂₅ (B. 36, 267 C. 1903 [1] 585). — *III, 350.
$C_{11}H_{18}O_{8}$	15) Oxy-β-Campholytäthyläthersäure. Sd. 174—177° ₃₅ (Soc. 83, 861 C. 1903 [2] 573).
	16) Methylester d. 3-Keto-1-Methyl-2-Propyl-R-Pentamethylen-2-Carbonsaure. Sd. 138—140° ₂₂ (C. r. 138, 210 C. 1904 [1] 663).
	17) Aethylester d. ζ-Keto-β-Methyl-β-Hepten-η-Carbonsäure. Sd. 127 bis 130° ₁₄ (C. r. 136, 755 C. 1903 [1] 1019).
	18) Aethylester d. 3-Keto-1-Methyl-2-Aethyl-R-Pentamethylen-2- Carbonsäure. Sd. 119—120° ₁₈ (C. r. 138, 210 C. 1904 [1] 663).
C ₁₁ H ₁₈ O ₄	*4) β -Nonen- $\alpha\beta$ -Dicarbonsäure. Sm. 131 ° (A. 331, 110 C. 1904 [1] 931). *5) γ -Nonen- $\alpha\beta$ -Dicarbonsäure (Hexylatikonsäure). Sm. 79—79,5 ° (A.
	*33) Diäthylester d. γ -Methyl- α -Buten- $\alpha\gamma$ -Dicarbonsäure. Sd. 1310.
	*34) Diäthylester d. γ -Methyl- α -Buten- $\theta\gamma$ -Dicarbonsäure. Sd. 126 bis
	1 1 00 (DUC. DD. 1000 U. 1004 (1 (400)).
	37) Maclayetin. Sm. 209—210° (<i>Ch. Z.</i> 20, 970). — *III, 444. 38) Dilakton (aus Hexylatikonsäure). Sm. 185—186° u. Zers. (A. 331, 122 <i>C.</i> 1904 [1] 932).
	39) Methylester d. γε-Diketo-β-Methyloktan-δ-Carbonsäure (M. d. Iso-butyrylbutyrylessigsäure). Sd. 125° ₁₈ Cu (Bl. [3] 27, 1094 C. 1903
	11 220). 40) Methylester d. β -Isobutyroxyl- α -Penten- α -Carbonsäure (M. d. O-Iso.
	Dutyrylbutyrylessigsäure). Sd. 128° 18 (Bl. [3] 27, 1095 C. 1903 [1] 227. 41) Aethylester (aus d. Verb. C., H, O. Br). Sd. 155° (Soc. 77, 858, 79)
	1341). — *III, 687. 42) Diacetat d. 3,4-Dioxy-l-Methylhexahydrobenzol. Sd. 157—158% (C. 1904 [2] 220).
	(0. 200± [n] nco).

18) Säure (aus Hexylatikonsäure). Sm. 126-127°. Ca + H₂O, Ag, (A. 331, $C_{1}, H_{18}O_{5}$ 18 C. 1904 [1] 931).

19) $\alpha \gamma$ -Lakton d. $\beta \gamma$ -Dioxynonan- $\alpha \beta$ -Dicarbonsäure. Sm. 103—104°. Ca + 2½H₂O, Ba + H₂O, Ag (A. 331, 112 C. 1904 [1] 931).

20) Aldehyd d. $\alpha \gamma$ -Diacetoxyl- $\beta \beta$ -Dimethylbutan- δ -Carbonsäure. Fl. (M. 25, 1070 C. 1904 [2] 1599). 21) Dimethylester d. δ -Ketoheptan- α η -Dicarbonsäure. Sm. 30-31 $^{\circ}$ (B. 37, 3819 C. 1904 [2] 1606).
 Diäthylester d. γ-Keto-β-Methylbutan-βδ-Dicarbonsäure. Sd. 185 bis 190°₁₀₀ (Soc. 83, 12 C. 1903 [1] 76, 443). C11 H18 O6 *3) γ -Acetoxyl- $\beta\delta$ -Dimethylpentan- $\beta\delta$ -Dicarbonsäure. Sm. 171° (158) bis 159°?) (Bl. [3] 31, 118 C. 1904 [1] 644). 20) Diäthylester d. β-Acetoxylpropan-αγ-Dicarbonsäure. Sd. 153 bis 154°₁₁ (Bl. [3] 29, 1014 C. 1903 [2] 1315).
 13) 2-[β-Diäthylamidoäthyl]pyridin. Sd. 115-116°₁₈. (2 HCl, PtCl₄), (2 HCl, $C_{11}H_{18}N_2$ AuCl₃, Pikrat) (B. 36, 169 C. 1904 [1] 672).

14) Menthonpyrazol. Fl. (2HCl, PtCl₄) (A. 329, 123 C. 1903 [2] 1322).

15) Tetrahydrocarvonpyrazol. Fl. (2HCl, PtCl₄) (A. 329, 124 C. 1903 2] 1323). 16) Thujamenthonpyrazol. Fl. (2 HCl, PtCl₄) (A. 329, 128 C. 1903 [2] 1323). $C_{11}H_{19}N$ 3) Methylamidocamphen. Sd. 202 °758. (2 HCl, PtCl₄), HJ (Soc. 85, 334) C. 1904 [1] 808, 1440). C 68,4 - H 9,8 - N 21,7 - M. G. 193. $C_{11}H_{19}N_3$ 1) 3, 4, 5-Triamido-1-tert. Amylbenzol. Sm. 149 (A. 327, 216 C. 1903) [1] 1408). 11) β -Oxy- $\beta\zeta$ -Dimethyl- $\beta\zeta$ -Nonadiën (α -Methylgeraniol). Sd. 112—113 $^{\circ}_{12}$ (D.R.P. 153120 C. 1904 [2] 624; D.R.P. 154656 C. 1904 [2] 1269). $C_{11}H_{20}O$ 12) Methyläther d. Tanacetylalkohol (M. d. Thujylalkohol) (B. 33, 3122). - *III, *351*. 13) Isobutylhexahydrophenylketon. Sd. $114^{\circ}_{\circ 0}$ (C. r. 139, 344 C. 1904) [2] 704). 14) isom. 1-Methylmenthon. Sd. 96-97° (C. r. 138, 1140 C. 1904 [2] 106; C. 1904 [2] 1046). *29) Lakton d. γ -Oxymethyl- $\beta\zeta$ -Dimethylheptan- δ -Carbonsäure (Am.30, C11H20O2 232 C. 1903 [2] 933). 33) $\beta \gamma$ -Diketo- δ -Methyldekan. Sd. 94°₁₀ (*Bl.* [3] **31**, 1176 *C.* **1904** [2] 1701). 34) 1-1-Methyl-4-Isopropylhexahydrobenzol-3-Carbonsäure (l-Menthancarbonsäure). Sm. 65; Sd. 167°₂₁ (B. 35, 4417 C. 1903 [1] 330). 35) Acetat d. δ -Oxy- $\delta\zeta$ -Dimethyl- α -Hepten (C. 1904 [2] 185). 36) Acetat d. 2-Oxy-1-Methyl-3-Isopropyl-R-Pentamethylen. Sd. 92 bis 94°₁₄ (B. 37, 237 C. 1904 [1] 726).

*7) Aethylester d. ζ-Keto-β-Methylheptan-s-Carbonsäure. Sd. 114 bis 115°₁₂ (Bl. [3] 31, 759 C. 1904 [2] 309). C11 H20 O8 18) β -Oxy- α -Heptenpropyläther- α -Carbonsäure. Sm. 58° (C. r. 138, 287 \tilde{C} . 1904 [1] 719). 19) Methylester d. β -Oxy- α -Oktenmethyläther- α -Carbonsäure. Sd. 245 bis 248° (C. r. 138, 208 C. 1904 [1] 659; Bl. [3] 31, 514 C. 1904 [1] 20) Aethylester d. 5-Oxy-1,3-Dimethylhexahydrobenzol-2-Carbonsäure. Sd. 144—146° $_{18}$ (D.R.P. 148207 C. 1904 [1] 486). 21) Aethylester d. β -Ketooktan- α -Carbonsäure. Sd. (C. r. 136, 755 C. 1903 [1] 1019). Sd. 132—133°, 22) Aethylester d. γ -Ketooktan- β -Carbonsäure. Sd. 128—129 $^{\circ}_{11}$ (Bl. [3] 31, 596 C. 1904 [2] 26). 23) Aethylester d. ε-Ketooktan-δ-Carbonsäure. Sd. 112-113 (Bl. [3] 31, 594 C. 1904 [2] 26). 24) Aethylester d. δ -Keto- β -Methylheptan- γ -Carbonsäure. Sd. 111 $^{\circ}_{14}$ (Bl. [3] 31, 594 C. 1904 [2] 26). 25) Aethylester d. δ -Keto- β -Methylheptan- ε -Carbonsäure. Sd. 107 bis 108 $^{\circ}_{11}$ (Bl. [3] 31, 595 C. 1904 [2] 26). 26) Aethylester d. ε-Keto-β-Methylheptan-ζ-Carbonsäure. Sd. 117 bis 118 $^{\circ}_{13}$ (Bl. [3] 31, 599 C. 1904 [2] 26).

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$C_{11}\mathbf{H}_{20}O_3$	27) Isobutylester d. β -Ketohexan- γ -Carbonsäure. Sd. 115—116° $_{19}$ (Bl. [3] 31, 1072 C. 1904 [2] 1457).
$C_{11}H_{20}O_4$	*10) Diathylester d. Pentan- $\gamma\gamma$ -Dicarbonsäure. Sd. 220—222° (C. r. 137, 715 C. 1903 [2] 1424).
	*12) Diäthylester d. β -Methylbutan- α δ -Dicarbonsäure. Sd. 257 $^{\circ}_{746}$ (C. 1903 [2] 288).
	*30) Nonan-at-Dicarbonsäure. Sm. 124°. Ca (J. pr. [2] 67, 416 C. 1903 [1] 1404).
	36) α -Acetoxyloktan- α -Carbonsäure. Sd. 171—174 $^{0}_{10}$ (u. Zers.) (<i>C. r.</i> 138, 698 <i>C.</i> 1904 [1] 1066).
	37) cis-βζ-Dimethylheptan-γδ-Dicarbonsäure. Sm. 118—119°. Ca, Ag. (Am. 30, 236 C. 1903 [2] 934).
	38) trans- β ; Dimethylheptan- γ δ -Dicarbonsäure. Sm. 142°. Ag ₂ (Am. 30, 234 G . 1903 [2] 934).
	39) Methylester d. Dioxydihydropulegensäure. Sm. 118—119° (A. 327, 127 C. 1903 [1] 1412).
	40) Diäthylester d. cis- β -Methylbutan- $\alpha \gamma$ -Dicarbonsäure. Sd. 138° ₂₄ (C. r. 136, 243 C. 1903 [1] 565).
	41) Isobutylester d. 1-α-Butyroxylpropionsäure. Sd. 110—112° ₁₂₋₁₃ (C. 1903 [2] 1419).
$\mathbf{C_{11}H_{20}O_{5}}$	*6) Disthylester d. γ -Oxypentan- $\beta\delta$ -Dicarbonsaure. Sd. 178—179° ₅₃ (Bl. [3] 29, 1021 C. 1903 [2] 1315).
	*12) αβ-Dibutyrat d. αβγ-Trioxypropan (C. 1903 [1] 134). 14) αγ-Dibutyrat d. αβγ-Trioxypropan (C. 1903 [1] 133).
	15) $\alpha\beta$ -Diisobutyrat d. $\alpha\beta\gamma$ -Trioxypropan. Sd. 269—272° (<i>O</i> . 1903 [1] 134). 16) $\alpha\gamma$ -Diisobutyrat d. $\alpha\beta\gamma$ -Trioxypropan. Sd. 272—275° (<i>O</i> . 1903 [1] 134).
$\mathrm{C_{i1}H_{20}O_6}$	4) $\beta \gamma$ -Dioxynonan- $\alpha \beta$ -Dicarbonsäure. Ca, Ba (A. 331, 115 C. 1904 [1]
	931). 5) Säure (aus Hexylatikonsäure). Ba (A. 331, 118 C. 1904 [1] 931).
$egin{array}{l} \mathbf{C_{11}H_{20}Br_2} \\ \mathbf{C_{11}H_{21}Br} \end{array}$	1) $\beta\gamma$ -Dibrom- β -Undeken. Sd. 137—139 $^{\circ}_{11}$ (B. 36, 2552 C. 1903 [2] 655). 1) Bromundeken. Sd. 122—127 $^{\circ}_{30}$ (B. 36, 2549 C. 1903 [2] 654).
C ₁₁ H ₂₂ O	*1) δ-Oxy-δ-Methyl-α-Deken (C. 1903 [2] 1415). *5) β-Ketoundekan. Sd. 231,5—232,5° (220°) (Soc. 81, 1588 C. 1903 [1] 29, 162; Bl. [3] 29, 675 C. 1903 [2] 487; B. 36, 2547 C. 1903 [2] 654;
	B. 36, 2552 C. 1903 [2] 655). *16) β-Keto-δ-Methyldekan. Sd. 115 $^{\circ}_{25}$ (Bl. [3] 31, 1158 C. 1904 [2] 1708). 17) α-Oxyisoamylhexahydrobenzol. Sd. 123 $^{\circ}_{20}$ (C. r. 139, 344 C. 1904
	[2] 704). 18) 1-Oxy-1-Isoamylhexahydrobenzol. Sd. 115_{20}^{6} (C. r. 138, 1322)
	C. 1904 [2] 219). 19) Diäthyläther d. Dioxymethylhexahydrobenzol. Sd. $109-110^{\circ}_{20}$
	 (C. r. 139, 344 C. 1904 [2] 704). 20) Aldehyd d. Dekan-α-Carbonsäure. Sm4°; Sd. 116-117°,
$C_{11}H_{22}O_2$	(Bl. [3] 29, 1203 C. 1904 [1] 355; C. r. 138, 699 C. 1904 [1] 1066). *4) $\beta\beta\gamma\delta\delta$ -Pentamethylpentan- γ -Carbonsäure. Sm. 68° (C. 1903 [2] 129).
011112202	*8) Aethylester d. Oktan-β-Carbonsäure. Sd. 99 ° ₁₃ (Bl. [3] 31, 748 C. 1904 [2] 303).
	27) Methylhertylcárbinolester d. Essigsäure (Acetat d. β -Oxynonan). Sd. 213—215° (Soc. 81, 1592 C. 1903 [1] 29, 162).
$C_{11}H_{29}O_{3}$	13) Aethylester d. α-Oxyoktan-α-Carbonsäure. Sm. 69—70° (C. r. 138, 698 C. 1904 [1] 1066).
	14) Oktylester d. 1-α-Oxypropionsäure. Sd. 126—128° ₁₁ (C. 1903 [2] 1419).
$\mathbf{C}_{11}\mathbf{H}_{22}\mathbf{O}_{6}$	*1) Tetramethyläther d. a-Methylglykosid. Sd. 148—150° _{t3} (Soc. 83, 1030 C. 1903 [2] 346, 659; Soc. 83, 1039 C. 1903 [2] 659; Soc. 85, 1058 C. 1904 [2] 891).
	2) Tetramethyläther d. β-Methylglykosid. Sm. 42-43° (Soc. 83, 1035)
	 C. 1903 [2] 346, 659; Soc. 85, 1061 C. 1904 [2] 891). 3) Tetramethyläther d. α-Methylgalaktosid. Sd. 260—262° u. Zers. (Soc. 85, 1074 C. 1904 [2] 892).
	(Soc. 85, 1074 C. 1904 [2] 892). 4) Tetramethyläther d. β-Methylgalaktosid. Sm. 44—45° (Soc. 85, 1078 C. 1904 [2] 892).
$\mathbf{C_{11}H_{22}Br_{2}}$	1078 C. 1904 [2] 892). *2) $\beta \gamma$ -Dibromundekan. Sd. 145—146% (B. 36, 2549 C. 1903 [2] 654).

- 11) Base (aus Dihydro- β -Dimethylamidocampholenmethylhydroxyd). Sd. 191 $C_{11}H_{28}N$
- bis 192°. HCl (C. r. 136, 1462 C. 1903 [2] 287).
 *5) α-Oxyundekan. Sm. 11°; Sd. 146°_{s0} (Bl. [3] 29, 1207 C. 1904 [1] 355).
 *6) β-Oxyundekan. Sd. 231—233° (Soc. 81, 1593 C. 1903 [1] 29, 162;
 B. 36, 2548 C. 1903 [2] 654). C11H24O
- 6) α -Aethyläther d. $\alpha\beta$ -Dioxy- β -Methyloktan. Sd. 110—112 $^{0}_{14}$ (C. r. 138, C11H24O2 92 C. 1904 [1] 505). C11H24O4 C 60,0 - H 10,9 - O 29,1 - M. G. 220.
- 1) Tetraäthyläther d. $\alpha\alpha\gamma\gamma$ -Tetraoxypropan + H_2O . Fl. (B. 36, 3659 C. 1903 [2] 1311).
- *1) β-Amidoundekan. Sd. 113—114°₂₆. (2 HCl, PtCl₄), Pikrat (B. 36, 2554 C11 H25 N C. 1903 [2] 655).
- C11H26N2
- 3) Propyldiisobutylamin. (2HCl, PtCl₂) (C. 1904 [1] 923). C 70,9 H 14,0 N 15,0 M. G. 186. 1) αγ-Di[Diäthylamido]propan. Sd. 205—209°. (2HCl, 2HgCl₂) (J. pr. [2] 68, 355 C. 1903 [2] 1318).

- 11 III -

- $\mathbf{C}_{11}\mathbf{H}_{6}\mathbf{O}_{5}\mathbf{Br}_{2}$
- *1) Dibrompurpurogallin. Sm. 204—206° (Soc. 83, 195 C. 1903 [1] 639). *1) Naphtostyril. Na (B. 35, 4220 C. 1903 [1] 165). *3) 4-Nitro-1-Oxynaphtalin-2-Carbonsäure. Sm. 212° (A. 330, 103 $C_{11}H_7ON$
- C11H7O5N C. 1904 [1] 1076).
- $C_{11}H_7O_5N_3$ 4) 4,5-Dinitro-1-Naphtylamid d. Ameisensäure. Sm. 2440 (D.R.P. 145 191 C. 1903 [2] 1098). 3) Verbindung (aus 4-Nitro-3-Phenylisoxazol). K (A. 328, 250 C. 1903
- C11H7O8N8 [2] 1000).
- 1) Brom-2,4,6-Tribromphenylat d. Pyridin. Sm. 310-312° u. Zers. C11H7NBr4 + Br₂ (A. 333, 336 C. 1904 [2] 1151).
- 1) Nitril d. ?-Benzylidenamidothiazol-?-Carbonsäure. Sm. 140-1410 $C_{11}H_7N_3S$ (B. 36, 3549 C. 1903 [2] 1379). 2) 6-Chlor-2-Phenylpurin (B. 37, 2271 C. 1904 [2] 199). 2) 6-Keto-2-Phenylpurin (B. 37, 2270 C. 1904 [2] 199).
- C₁₁H₇N₄Cl $C_{11}H_8ON_4$
- 3) 3-Oxy-2-Methyl-1,4,5,10-Naphttetrazin(Oxymethylpyrazinophenazin). Sm. oberh. 300° (B. 36, 4041 C. 1904 [1] 183).
- 8) 3-Phenyl-1,2-Diazin-6-Carbonsäure. Sm. 130-131° (B. 36, 494 C. $C_{11}H_8O_2N_2$ **1903** [1] 653).
 - 9) Lakton d. 5-Oxy-3-Methyl-1-Phenylpyrazol-1²-Carbonsäure. Sm. 109°; Sd. 345° (B. 37, 2231 C. 1904 [2] 229).
 - 10) 3-Cyanphenylimid d. Bernsteinsäure. Sm. 137-137,5° (C. 1904 [2] 103).
- 13) Amid d. α-Cyan-β-[3,4-Dioxyphenyl]akryl-3,4-Methylenäthersäure. Sm. 209° (C. 1903 [2] 715). $C_{11}H_8O_3N_2$
 - 14) 5-Nitro-l-Naphtylamid d. Ameisensäure. Sm. 199 (D.R.P. 145191 C. 1903 [2] 1098).
- 23) α -Cyan- β -[3-Nitrophenyl] propen- γ -Carbonsäure (C. 1904 [1] 877). $C_{11}H_8O_4N_2$ 24) Phenylamid d. P-Nitrofuran-2-Carbonsäure. Sm. 180° (C. r. 137,
- 520 *C.* **1903** [2] 1069). *1) Methyläther d. 1,6-Dinitro-2-Oxynaphtalin. Sm. 204° (A. 335, 143 C11H8O5N2 C. 1904 [2] 1135).
- $C_{11}H_8O_6S$
 - *3) 3-Oxynaphtalin-2-Carbonsäure-5-Sulfonsäure. Na (C. 1903 [2] 42). *4) 3-Oxynaphtalin-2-Carbonsäure-7-Sulfonsäure. Na (C. 1903 [2] 42). 5) 2-Oxynaphtalin-1-Carbonsäure-6-Sulfonsäure (D.R.P. 53343).
- *5) 2-Benzoylpyrrol. Sm. 77°; Sd. 320° (B. 37, 2797 C. 1904 [2] 532). 19) 1-Benzoylpyrrol. Sd. 276°₇₁₅ (B. 37, 2797 C. 1904 [2] 531). C11HON
- *27) 2-Methylchinolin-3-Carbonsäure. Sm. 234° (J. pr. |2] 67, 508 C. $\mathbf{C}_{11}\mathbf{H}_{9}\mathbf{O}_{2}\mathbf{N}$ 1903 [2] 252).

 - *37) Chinolinbetain. HCl (A. 326, 323 C. 1903 [1] 1089). *38) Methylbetain d. Chinolin-4-Carbonsäure. Sm. 232° u. Zers. (M. 24, 201 C. 1903 [2] 48).
 - *50) Phenylamid d. Furan-2-Carbonsäure. Sm. 123,5° (B. 37, 2954 C. 1904 [2] 993).

 $C_{11}H_{10}ON_2$

62) 4-Formylamido-1-Oxynaphtalin. Sm. 168° (D.R.P. 149022 C. 1904 C, H,O2N [1] 769). 63) 4-Methylchinolin-2-Carbonsäure + 1 1 /₂ H₂O. Sm. 153—154 $^{\circ}$. HCl, (2 HCl, PtCl₄) (B. 37, 1327 C. 1904 [1] 1360). 10) α-Nitromethylen-β-[1-Naphtyl]hydrazin. Sm. 120° (C. 1903 [2] 427). $C_{11}H_9O_2N_8$

11) Oxim d. 1,2-Naphtochinonmonourein (G. 27 [1] 236). — *III, 285. *1) Methyläther d. 1-Nitro-2-Oxynaphtalin. Sm. 126° (C. 1903 [2] $C_{11}H_9O_3N$ 1109).

*34) Methylester d. Benzoylcyanessigsäure. Sm. 74°. NH₄, Aethylaminsalz (C. r. 136, 690 C. 1903 [1] 920; Bl. [3] 31, 332 C. 1904 [1] 1135).
46) Methyläther d. 2-Nitro-l-Oxynaphtalin. Sm. 80° (C. 1903 [2] 1109).
47) Cytisolinsäure. Sm. oberh. 350° (B. 37, 19 C. 1904 [1] 522).

*5) Acetylphenylhydrazoncyanessigsäure. Sm. 210°. Pb (J. pr. [2] 67, $C_{11}H_0O_3N_3$ 404 C. 1903 [1] 1346).

9) 6-Semicarbazonmethyl-1, 2-Benzpyron. Sm. noch nicht bei 320° (B. 37, 196 C. 1904 [1] 661).

10) Benzoat d. 4-Oximido-5-Keto-3-Methyl-4, 5-Dihydropyrazol.

Sm. 170-180° u. Zers. (G. 34 [1] 182 C. 1904 [1] 1332).

 15) α-Cyan-β-[3, 4-Dioxyphenyl]propion-3, 4-Methylenäthersäure.
 Sm. 142° (C. 1904 [1] 879). $C_{11}H_9O_4N$ 16) α-Phtalylamidopropionsäure. Sm. 164° (M. 25, 779 C. 1904 [2] 1121).

17) Diäthylester d. 1 - Methyltetrahydropyrrol - 2, 2 - Dicarbonsäure. Sd. 133—135°₁₆. Pikrat (A. 326, 116 C. 1903 [1] 843).

7) Diacetat d. 3,5,6-Trichlor-2,4-Dioxy-l-Methylbenzol. Sm. 126°

C11H9O4Clx (A. 328, 308 C. 1903 [2] 1248). Phenylbromisoparakonsäure. Sm. 147° (A. 305, 39 Anm.; A. 330,

C,1H,O4Br 325 C. 1904 [1] 928). — *II, 1077.

 $C_{11}H_9O_5N$

10) Anhydrid d. β-[2-Nitrophenyl] propan-αγ-Dicarbonsäure. Sm. 106° (B. 36, 2673 C. 1903 [2] 948).
 11) Anhydrid d. Iso - β-[2-Nitrophenyl] propan - αγ - Dicarbonsäure. Sm. 130-131° (B. 36, 2673 C. 1903 [2] 948).

*2) 2,4-Dinitrophenyloxydhydrat d. Pyridin. Salze siehe (J. pr. [2] 68, $C_{11}H_9O_5N_8$

260 C. 1903 [2] 1064; A. 333, 296 C. 1904 [2] 1147).
5) ε-[2,4-Dinitron henyllimido-α-Oxy-αγ-Pentadiën. Sm. 180° (B. 34, 3022; ... 333, ... 1901 [2] 1148; J. pr. [2] 70, 25 C. 1904 [2] 1233).

 $C_{i_1}H_9O_8N$ 11) cis - 1 - [?-Nitrophenyl]-R-Trimethylen-trans-2, 3-Dicarbonsäure. Sm. 245° u. Zers. (B. 36, 3780 C. 1904 [1] 42).

2) Chlor-2-Chlorphenylat d. Pyridin + H₂O. Sm. 88-93°. 2 + PtCl₄ C,, H, NCl (A. 333, 334 C. 1904 [2] 1150).
3) Chlor-4-Chlorphenylat d. Pyridin. Sm. 123—124°. 2 + PtCl₄

(A. 333, 332 C. 1904 [2] 1150). 37) 2-[α-Oximidobenzyl]pyrrol. Sm. 147° (B. 37, 2797 C. 1904 [2] 532). C₁₁H₁₀O₂N₂*34) Phenylhydrazid d. Furan-2-Carbonsäure. Sm. 1440 (B. 37, 2953)

C. 1904 [2] 993). 48) 4 - Acetylamido - 3 - Phenylisoxazol. Sm. 128-1290 (A. 328, 247 C. 1903 [2] 1000). 49) 8-Nitro-2, 6-Dimethylchinolin. Sm. 114°. HCl (C. 1904 [2] 543).

50) Methylester d. α-Cyan-β-Amido-β-Phenylakrylsäure. Sm. 181 bis 182° (C. r. 136, 690 C. 1903 [1] 920; Bl. [3] 31, 332 C. 1904 [1] 1135).
 8) l-Benzylidenamido-5-Methyl-1, 2, 3-Triazol-4-Carbonsäure. Sm. 170°

 $C_{11}H_{10}O_2N_4$ (B. 36, 3615 C. 1903 [2] 1380). 9) Amid d. Acetylphenylhydrazoncyanessigsäure. Sm. 224° (J. pr.

[2] 67, 406 C. 1903 [1] 1347). $C_{11}H_{10}O_2Br_4*1$) $\alpha\beta\gamma\delta$ -Tetrabrom- δ -Phenylvaleriansäure. Sm. 245° (A. 336, 221

C. 1904 [2] 1733). $C_{11}H_{10}O_2S$ 5) δ-Merkapto-α-Phenyl-αγ-Butadiën-δ-Carbonsäure. Sm. 149° (M. 23, 968 C. 1903 [1] 284).

 $C_{11}H_{10}O_8N_2*29$) 8-Nitro-2-Keto-1-Aethyl-1, 2-Dihydrochinolin. Sm. 87° (J. pr. [2] 68, 101 C. 1903 [2] 445).

31) ε -[4-Nitrophenyl]imido- α -Oxy- $\alpha\gamma$ -Pentadiën (J. pr. [2] 70, 32 C. 1904 [2] 1234).

32) 6-Aethylnitrosamido-1, 2-Benzpyron. Sm, 90° (Soc. 85, 1238 C. 1904 [2] 1124).

- $C_{11}H_{10}O_3N_2$ 33) 6 [β Acetylhydrazido] 1, 2 Benzpyron. Sm. 163° (S_0c . 85, 1236) C. 1904 [2] 1124).
 - 34) Nitrocytisolin. Sm. 275° (B. 37, 20 C. 1904 [1] 522).
 - 35) 3-Nitrophenylhydroxyd d. Pyridin. Salze siehe (J. pr. [2] 70, 40
 - C. 1904 [2] 1235).
 36) 5-Keto-3-Methyl-1-Phenyl-4, 5-Dihydropyrazol-12-Carbonsäure.
 Sm. 139° (B. 37, 2231 C. 1904 [2] 229).
 - 37) Aethylester d. 3-Cyanphenyloxaminsäure. Sm. 148-148,5° (C. 1904) [2] 102).
 - 38) Aethylester d. 5-Phenyl-1, 2, 3-Oxdiazol-4-Carbonsäure. (B. 36, 3613 C. 1903 [2] 1380).
 - 39) Amid d. α -Cyan- β -[3,4-Dioxyphenyl] propion-3,4-Methylenäthersäure. Sm. 186—186,5° (C. 1903 [2] 715; 1904 [1] 879).
 - 40) Amid d. α -Cyan- β -[4-Oxy-3-Methoxylphenyl]akrylsäure. Sm. 210 bis 210,5° (C. 1904 [2] 903).
 - 41) 3-Cyanphenylmonamid d. Bernsteinsäure. Sm. 132—133°. (C. 1904 [2] 103).
- $C_{11}H_{10}O_8Br_4$ 6) 3,4-Methylenäther-5-Methyläther d. 2,6-Dibrom-3,4,5-Trioxy-1- $[\alpha\beta$ -Dibrompropyl]benzol (Dibromisomyristicindibromid). (*B*. **36**, 3449 *C*. **1903** [2] 1176).
 - 7) 3,4-Methylenäther-5-Methyläther d. 2,6-Dibrom-3,4,5-Trioxy-1-[$\beta\gamma$ -Dibrompropyl] benzol (Dibrommyristicindibromid). Sm. 130° (B. 36, 3448 C. 1903 [2] 1176; B. 36, 3453 C. 1903 [2] 1177).
- Šm. 78° (A. 327, 117 C11H1003S *5) Methylester d. Naphtalin-1-Sulfonsäure. C. 1903 [1] 1214).
 - *6) Methylester d. Naphtalin-2-Sulfonsaure. Sm. 54° (A. 327, 117 C. 1903 [1] 1214).
- $C_{11}H_{10}O_4N_2$ 19) 2, 5-Diketo-1-Phenyltetrahydroimidazol-4-Methylcarbonsäure. Sm. 228°. Ag (B. 36, 3341 C. 1903 [2] 1175).
 - 20) Aethylester d. 1,3-Diketo-1,3-Dihydro-2,4-Benzdiazol-2-Methylcarbonsäure (Ae. d. Chinolinylamidoessigsäure). Sm. 1220 (B. 37, 2132 C. 1904 [2] 232).
- C₁₁H₁₀O₄Cl₂ 2) Verbindung (aus Zimmtsäure u. Dichloressigsäure) (R. 21, 353 C. 1903 [1] 150).
- C₁₁H₁₀O₄Br₂*4) Dimethyläther d. 3,4-Dibrom-5,7-Dioxy-3,4-Dihydro-1,2-Benzpyron. Sm. 250-260° (Ar. 242, 292 C. 1904 [2] 105).
 3) Aethylester d. 3,5-Dinitrobenzoylessigsäure. Sm. 73° (J. pr. [2] 69,
- $C_{11}H_{10}O_7N_2$ 461 C. 1904 [2] 595).
- 4) β -[2, 6-Dinitrophenyl] propan- $\alpha\gamma$ -Dicarbonsäure. $C_{11}H_{10}O_8N_2$ Sm. 168—169° (B. 36, 2674 C. 1903 [2] 948).
- 5) Iso-β-[2, 6-Dinitrophenyl] propan-αγ-Dicarbonsäure. Sm. 181° (B. 36, 2674 C. 1903 [2] 948).
 5) Chlorphenylat d. Pyridin + H₂O. Sm. 105-106°. + FeCl₃, + PtCl₄, + AuCl₃ (J. pr. [2] 69, 115 C. 1904 [1] 815; A. 333, 329 C. 1904 [2] C₁₁H₁₀NCl 1150).
- $C_{11}H_{10}NBr$ $\mathbf{C}_{11}\mathbf{H}_{11}\mathbf{ON}$
- 1150).

 1) Bromphenylat d. Pyridin. + FeCl₃ (*J. pr.* [2] 69, 118 *C.* 1904 [1] 815).

 *49) Cytisolin. Sm. 199° (*B.* 37, 19 *C.* 1904 [1] 522).

 50) Phenylhydroxyd d. Pyridin. Salze siehe (*J. pr.* [2] 69, 117 *C.* 1904 [1] 815; *A.* 333, 329 *C.* 1904 [2] 1150).

 51) 3-Aethyl-5-Phenylisoxazol. Sm. -2°; Sd. 157-158°₁₈ (*C. r.* 137,
 - 796 C. 1904 [1] 43).

 - 52) 5-Oxy-2,4-Dimethylchinolin. Sm. 200 ° (B. 36, 4017 C. 1904 [1] 293). 53) 7-Oxy-2,4-Dimethylchinolin. Sm. 218 °. HCl (B. 36, 4016 C. 1904 [1] 293).
 - 54) Nitril d. isom. β -Keto- α -Phenylbutan- α -Carbonsäure. Sm. 70° (B. 36, 2242 C. 1903 [2] 435). 18) 4-Nitroso-3,5-Dimethyl-1-Phenylpyrazol.
- C_1, H_1, ON_8 Sm. 94° (A. 325, 192 C. 1903 [1] 647).
 - 19) 5-Oxy-3-Propenyl-1-Phenyl-1,2,4-Triazol. Sm. 188° (B. 36, 1100 C. 1903 [1] 1140).
- $C_{11}H_{11}O_2N$ *49) 4-Methylphenylimid d. Bernsteinsäure. Sm. 150° (B. 37, 1599) C. 1904 [1] 1418).
 - *60) 6-Methyläther d. 6,7-Dioxy-2-Methylchinolin. HCl, Pikrat (B. 36, 2211 C. 1903 [2] 444).

 $C_{11}H_{11}O_{3}N_{5}$

- 63) 6-Dimethylamido-1,2-Benzpyron. Sm. 85-86° (Soc. 85, 1237 C. 1904 [2] 1124).
 - 64) 6-Aethylamido-1,2-Benzpyron. Sm. 83 ° (Soc. 85, 1238 C. 1904 [2] 1124).
 - 65) 6-Oxy-2-Keto-l-Aethyl-1,2-Dihydrochinolin. Sm. 208—210° (207 bis 208°) (B. 36, 459 C. 1903 [1] 590; B. 36, 1176 C. 1903 [1] 1364).
 - 66) 8-Oxy-2-Keto-1-Aethyl-1, 2-Dihydrochinolin. Sm. 202-203 (B. 36, 1177 C. 1903 [1] 1364).
 - 67) Methyläther d. 6-Oxy-2-Keto-1-Methyl-1,2-Dihydrochinolin. Sm. 75° (B. 36, 457 C. 1903 [1] 590).
 - 68) Aethylester d. Phenylcyanessigsäure. Sd. 275° 780 (Am. 32, 120 C. 1904 [2] 953).
- C₁, H₁, O₂N₃*17) Aethylester d. Phenylhydrazoncyanessigsäure. Sm. 82° (J. pr. [2] 67, 396 C. 1903 [1] 1346).
 - *18) Aethylester d. isom. Phenylhydrazoncyanessigsäure. Sm. 125° (J. pr. [2] 67, 396 C. 1903 [1] 1346).
 *19) Aethylester d. Phenylazocyanessigsäure. Sm. 84° (J. pr. [2] 67,
 - 397 C. 1903 [1] 1346).
 - 34) 4-Nitro-3,5-Dimethyl-1-Phenylpyrazol. Sm. 1030 (A. 325, 192 C.
 - **1903** [1] 647). 35) 7-Acetylamido-2-Acetylindazol. Sm. 160,5—161,5° (B. 37, 2577 C.
 - 1904 [2] 658). 36) Aethylester d. isom. Phenylazocyanessigsäure. Sm. 1180 (J. pr. [2] 67, 399 *C*. **190**3 [1] 1346).
 - 37) Nitril d. 2,6-Dioxy-4-Isobutylpyridin-3,5-Dicarbonsäure. NH4,
 - Ni, Co + 7H₂O, Cu, Ag + H₂O ($\stackrel{.}{C}$. 1903 [2] 192). 38) 3-Cyanphenylamid d. Succinaminsäure. Sm. 184° ($\stackrel{.}{C}$. 1904 [2] 103).
- 1) β -Chlor- α -Phenyl- α -Buten- α -Carbonsäure. Sm. 121 $^{\circ}$ (B. 36, 2248) $C_{11}H_{11}O_2C1$ 7. **190**3 [2] 436).
- *4) Oxyhydrastinin (Soc. 83, 623 C. 1903 [1] 591). $C_{11}H_{11}O_8N$
 - *33) Aethylester d. 3-Oxyindol-2-Carbonsaure (D.R.P. 138845 C. 1903
 - *44) Benzylimid d. d-Aepfelsäure. Sm. 105° (J. pr. [2] 70, 9 C. 1904 [2] 774; J. pr. [2] 70, 342 C. 1904 [2] 1567).
 - 58) Aethylester d. β-[3-Nitrosophenyl]akrylsäure. Sm. 65—66° (Am. 32, 397 C. 1904 [2] 1498).
 59) Aethylester d. β-[4-Nitrosophenyl]akrylsäure. Sm. 72—73° (Am. 32, 394 C. 1904 [2] 1498).
 - 60) 4-Oxyphenylimid d. Propan-lphaeta-Dicarbonsäure. Sm. 230° (G. 34 [2] 262 C. 1904 [2] 1453).
 - 61) Benzylimid d. 1-Aepfelsäure. Sm. 105° (B. 30, 1582; J. pr. [2] 70, 10 C. 1904 [2] 774).
 - 62) Benzylimid d. r-Aepfelsäure. Sm. 118° (B. 30, 1582; J. pr. [2] 70, 8 C. 1904 [2] 773).
- $C_{11}H_{11}O_8N_8$ 13) Methylenäther d. γ -Semicarbazon- α -[3,4-Dioxyphenyl] propen. Sm. 226° (B. 37, 1701 C. 1904 [1] 1497).
 - 14) 4-[β-Oximido-β-Phenyläthyl]-1,2,3,6-Dioxdiazin. Sm. 195° (A. 330, 245 C. 1904 [1] 946).
 - 15) 1-Benzoyl-3,5-Dioxy-6-Methyl-1,6-Dihydro-1,2,4-Triazin. Sm. 210° (Am. 28, 400 C. 1903 [1] 90).

 - 96—97° wasserfrei (A. 335, 80 C. 1904 [2] 1230).

 17) Aethylester d. 5-Keto-1-Phenyl-4,5-Dihydro-1,2,3-Triazol-4-Carbonsäure. Sm. 73—74° (B. 35, 4051 C. 1903 [1] 170).

 18) Amid d. 5-[3,4-Dioxyphenyl]-4,5-Dihydropyrazol-3,4-Methylenäther-1-Carbonsäure. ÜCl₂ (B. 37, 1701 U. 1904 [1] 1497). U 50,6 — H 4,2 — O 18,4 — N 26,8 — M. G. 261.
 - 1) Azid d. Benzoylamidoacetylamidoessigsäure. Sm. 109-110° (J. pr. [2] **70**, 79 *C*. **1904** [2] 1033).
- 4) Acetat d. Pseudo-p-Bromoxypropyldibromphenol. Sm. 107-1080 $C_{11}H_{11}O_{3}Br_{3}$ (B. **37**, 1560 C. **1904** [1] 1438).
- $C_{11}H_{11}O_3J$ Verbindung (aus Ceropten). Sm. 182 ° (U. 1904 [1] 40).
- $C_{11}H_{11}O_4N$ *14) Aethylester d. β -[3-Nitrophenyl]akrylsäure. Sm. 78–79° (Am. 32, 397 C. 1904 [2] 1498).

- $C_{11}H_{11}O_4N$ *15) Aethylester d. β -[4-Nitrophenyl]akrylsäure. Sm. 141—142° (Am. 32, 394 C. 1904 [2] 1498).
 - 26) cis-1-[?-Amidophenyl]-R-Trimethylen-trans-2, 3-Dicarbonsäure. Sm. noch nicht bei 300°. HCl (B. 36, 3781 C. 1904 [1] 42).
 - 27) Methylester d. α-Benzoximidopropionsäure. Sm. 103°; Sd. 190°₁₂ u. Zers. (Bl. [3] 31, 1071 C. 1904 [2] 1457).
 - 28) 4-Methylphenylimid d. d-Weinsäure. Sm. 235° u. Zers. (Soc. 83,
- 1366 C. 1904 [1] 85). 6) 4-Methyläther d. 4-[β -Oximido- β -4-Oxyphenyläthyl]-1,2,3,6-Dioxdiazin. Sm. 197—198° (A. 330, 243 C. 1904 [1] 945). $C_{10}H_{11}O_4N_8$
 - 7) $\alpha\gamma$ -Laktam d. α -Cyan- $\beta\gamma$ -Diimido-s-Ketohexan- $\alpha\delta$ -Dicarbonsäure- δ -Aethylester. Sm. 168 (A. 332, 156 C. 1904 [2] 192).
 - 8) γ -Acetat d. α -Phenylimido- β -Nitro- γ -Oximidopropan. Sm. 115—116° (Am. 29, 269 C. 1903 [1] 958).
- 2) γ -Semicarbazon- δ -Oximido- α -[3-Nitrophenyl]- α -Buten. Sm. 196 bis 197° u. Zers. (C. 1904 [1] 28; A. 330, 254 C. 1904 [1] 946). C11 H11 O4 N5
- 4) 6-Brom-3,5-Dioxy-2,4-Diacetyl-1-Methylbenzol. Sm. 79° (Soc. 85, $\mathbf{C}_{11}\mathbf{H}_{11}\mathbf{O}_{4}\mathbf{Br}$ 978 C. 1904 [2] 454, 711).
- C₁₁H₁₁O₅N *16) Benzol-1-Carbonsäure-2-Acetylamidoessigsäure (D.R.P. 147633 C. 1904 [1] 66; D.R.P. 151435 C. 1904 [1] 1585).
 - 23) α-Benzoylamidopropionsäure-2-Carbonsäure + H₂O. Sm. 129°. Ba + 4H₂O (M. 25, 781 C. 1904 [2] 1122).
 24) Aethylester d. 2-Nitrobenzoylessigsäure. Fl. K, Cu (Soc. 85, 152
 - C. 1904 [1] 724).
- *7) Diacetat d. 4-Nitro-l-Dioxymethylbenzol. Sm. 126,5° (Am. 31, 168 $C_{11}H_{11}O_6N$ C. 1904 [1] 875).
- 12) Iso-β-[2-Nitrophenyl]propan-αγ-Dicarbonsäure. Sm. 204,5° (B. 36, 2672 (2.1903 [2] 948).
 Nitrophenyl]propan-αγ-Dicarbonsäure. Sm. 204,5° (B. 36, 2672 (2.1903 [2] 948).
- 4) Dimethylester d. 2-Nitrophenylhydrazonmethan-αα-Dicarbon- $C_{11}H_{11}O_6N_3$ säure. Sm. 143—144° (B. 37, 4176 C. 1904 [2] 1704).
 - 5) Dimethylester d. 3-Nitrophenylhydrazonmethan-αα-Dicarbonsäure. Sm. 115—116° (B. 37, 4177 C. 1904 [2] 1704).
- 6) Dimethylester d. 4-Nitrophenylhydrazonmethan-αα-Dicarbonsäure. Sm. 162—163° (B. 37, 4177 C. 1904 [2] 1704).
 6) 2-Methylester d. 6-Nitro-3,4-Dioxybenzoldimethyläther-1-Carbon-C11H11O7N säurealdehyd-2-Carbonsäure (2-M. d. Nitroopiansäure). Sm. 76-78°
 - (M. 24, 801 C. 1904 [1] 164).
 7) Pseudomethylester d. 6-Nitro-3,4-Dioxybenzoldimethyläther-1-Carbonsäurealdehyd-2-Carbonsäure (Ps. d. Nitroopiansäure). Sm. 181,5—182,5° (M. 24, 796 C. 1904 [1] 163).
- 1) 3-Dichlormethyl-2,3-Dimethylpseudoindol. Sm. 73-740 (C. 1904 $\mathbf{C}_{11}\mathbf{H}_{11}\mathbf{NCl}_2$
- [2] 342). C₁₁H₁₁N₂Cl 5) 5-Chlor-3-Methyl-1-[2-Methylphenyl]pyrazol. Sm. 56° (B. 37, 2229) C. 1904 [2] 228).
- $C_{11}H_{11}N_2Br$ *2) 5-Brom-3,4-Dimethyl-1-Phenylpyrazol. Sm. 51° (A. 331, 241 C. 1904 [1] 1221).
- *8) Antipyrin. + Hg(NO₃)₂, + Hg(NO₂)₂, + Hg₂(NO₂)₂ (Bl. [3] 29, 201 C. 1903 [1] 839; A. 328, 78 C. 1903 [2] 250). *53) Amid d. α -Cyan- β -[3-Methylphenyl]propionsäure. Sm. 108,5° (A. 325, 211 C. 1903 [1] 439). $\mathbf{C}_{11}\mathbf{H}_{12}\mathbf{ON}_{2}$

 - 55) 5-Keto-4,4-Dimethyl-1-Phenyl-4,5-Dihydropyrazol. Sm. 51° (Bl.
 - [3] 31, 166 C. 1904 [1] 869). 56) Nitril d. 2-Butyrylamidobenzol-1-Carbonsäure. Sm. 89—89,5° (C. 1903 [1] 175).
 - Sm. 72,5—73,5° 57) Nitril d. 3-Butyrylamidobenzol-1-Carbonsäure. (C. **1904** [2] 101).
 - 58) Nitril d. 2-Isobutyrylamidobenzol-1-Carbonsäure. Sm. 111-111,5° (C. 1903 [1] 175). 59) Nitril d. 3-Isobutyrylamidobenzol-1-Carbonsäure. Sm. 101° (C.
 - 1904 [2] 101).
- $C_{11}H_{12}O_2N_2*39$) Amid d. α -Cyan- β -[4-Methoxylphenyl] propionsäure. Sm. 172° (A. **325**, 223 *C*. **1903** [1] 439).
 - 40) γ -Nitrimido- α -Phenyl- β -Methyl- α -Buten? Sm. 154—155° (A. 330, 246 C. 1904 [1] 946).

C₁₁H₁₂O₂N₂ 41) 3,5-Diketo-4,4-Dimethyl-1-Phenyltetrahydropyrazol. Sm. 177°

43) Tryptophan (C. 1903 [2] 1011; B. 37, 1803 C. 1904 [1] 1610).

42) 3-Nitro-2-Methyl-1-Aethylindol. Sm. 1250 (G. 34 [2] 62 C. 1904

Soc. 83, 1251 C. 1903 [2] 1422).

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44) Monoacetylhydrazon d. \alpha\beta-Diketo-\alpha-Phenylpropan. Sm. 154" (B.
                  36, 3187 \alpha. 1903 [2] 939). 45) Aethylester d. \alpha-Cyanphenylamidoessigsäure. Sm. 57^{\circ} (Am. 30,
                        469 C. 1904 [1] 378).
                   46) Aethylester d. \beta-Phenyl-\alpha-Diazopropionsäure. Sd. 90—94°, (B. 37,
                        1268 C. 1904 [1] 1334).
C_{11}H_{12}O_2N_4 10) \gamma-Oximido-\delta-Semicarbazon-\alpha-Phenyl-\alpha-Buten. Sm. 225—226° u. Zers. (C. 1903 [2] 1432; A. 330, 251 C. 1904 [1] 946).
                  11) isom. \gamma-Oximido-\delta-Semicarbazon-\alpha-Phenyl-\alpha-Buten? Sm. 242" (C. 1903 [2] 1432; A. 330, 252 C. 1904 [1] 946).
                  12) 1-Methylphenylamido - 5 - Methyl - 1, 2, 3 - Triazol - 4 - Carbonsäure
                  H<sub>2</sub>O. Sm. 125° (148° wasserfrei) (4. 325, 159° C. 1903 [1] 645).

13) Aethylester d. 5-Amido-1-Phenyl-1,2,3-Triazol-4-Carbonsäure.
Sm. 122° (B. 35, 4059° C. 1903 [1] 171).
C_{i1}H_{i2}O_{2}Br_{2}*7) Aethylester d. i-\alpha\beta-Dibrom-\beta-Phenylpropionsäure. Sm. 75-76°
                       (Soc. 83, 671 .C. 1903 [2] 115).
                  15) \alpha\beta-Dibrom-\beta-[2,5-Dimethylphenyl]propionsäure. Sm. 179—180"
u. Zers. (G. 34 [2] 121 C. 1904 [2] 1214). 
C<sub>11</sub>\mathbf{H}_{12}\mathbf{O}_{3}\mathbf{N}_{2} 20) Aethylester d. \beta-[4-Oxyphenyl]-\alpha-Diazopropionsäure. Fl. (B. 37, 1265 C. 1904 [1] 1333).
                  21) Aethylester d. Säure C_9H_8O_8N_2. Sm. 168° (C. 1904 [1] 1555).
                   6) 3-Ureïdo-2, 5-Diketo-4-Methyl-1-Phenyltetrahydroimidazol.
C_{11}H_{19}O_8N_4
                       bei 192° (C. 1904 [2] 1029).
C_{11}H_{12}O_3N_6
                       C 47.8 - H 4.3 - O 17.4 - N 30.4 - M. G. 276.
                   1) Azid d. \beta-Phenylureïdoacetylamidoessigsäure. Sm. 108° u. Zers.
propyl]benzol (Isomyristicindibromid). Sm. 1090 (1050) (B. 23, 1809;
\begin{array}{c} \text{B. 36, 3448 } \textit{C. 1903 [2] 1176).} & --\text{III, } \textit{638.} \\ \text{C}_{11}\text{H}_{12}\text{O}_{3}\text{Br}_{4} & 1) & \alpha, 3-\text{Dimethyläther d. 2,5,6-Tribrom-3,4-Dioxy-1-[}\beta-\text{Brom-}\alpha-\text{Oxy-propyl]benzol.} & \text{Sm. 126}-127^{\circ} \textit{(A. 329, 34 C. 1903 [2] 1437).} \\ \text{C}_{11}\text{H}_{12}\text{O}_{4}\text{N}_{2} & *5) & \text{Benzoylamidoacetylamidoessigsäure.} & \text{Sm. 206,5}^{\circ} \textit{(J. pr. [2] 70, 76)} \end{array}
                       C. 1904 [2] 1033).
                  *6) Dimethylester
                                               d.
                                                      Phenylhydrazonmethan-aa-Dicarbonsäure.
                       Sm. 62° (B. 37, 4170 C. 1904 [2] 1703).
                  21) 2,4-Di[Acetylamido]benzol-1-Carbonsäure. Sm. 261° (B. 36, 1802
                       C. 1903 [2] 283).
                 22) 4-Phenyltetrahydropyrazol-3, 5-Dicarbonsäure.
                                                                                                  Sm. 227--228"
                       (B. 36, 3779 C. 1904 [1] 41).
                 23) 2-Methylphenylamid d. N.-Acetoximidooxyessigsäure.
                      (Soc. 81, 1571 C. 1903 [1] 158).
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Ag (C. 1904 [2] 103) C₁₁H₁₂O₅N₂ *9) Aethylester đ. 3-Nitro-4-Acetylamidobenzol-1-Carbonsäure. Sm. 96-97° (D.R.P. 151725 C. 1904 [1] 1587)

24) 3-Amidoformylphenylmonamid d. Bernsteinsäure. Sm. 203-205.

13) β -Phenylureidobernsteinsäure. Sm. 183°. Ba + H₂O (B. 36, 3339) C. 1903 [2] 1175).

14) Methylester d. β -Nitro- γ -Oximido- γ -Phenylbuttersäure. Sm. 128° u. Zers. (A. 329, 251 C. 1904 [1] 31).

15) Aethylester d. 3-Nitrobenzoylamidoessigsäure. Sm. 75° (B. 36,

1647 C. 1903 [2] 32). 16) Aethylester d. 4-Nitrobenzoylamidoessigsäure. Sm. 144" (B. 36, 1648 C. 1903 [2] 32).

17) 2-Aethylester d. Phenylnitrosamidoessigsäure-2-Carbonsäure. Fl. (D.R.P. 138207 C. 1903 [1] 305).

18) Monamid d. β-[2-Nitrophenyl] propan-αγ-Dicarbonsäure. Sm. 142° (B. 36, 2674 C. 1903 [2] 948).
 19) Monamid d. Iso-β-[2-Nitrophenyl] propan-αγ-Dicarbonsäure.

Sm. 156° (B. 36, 2674 C. 1903 [2] 948).

- C₁₁ $\mathbf{H}_{12}\mathbf{O}_{5}\mathbf{S}$ 1) α -Phenyl- α -Buten- δ -Carbonsäure- γ -Sulfonsäure. Sm. 76°. K, K₂, Ca + 3 H₂O, Ba (4m. 31, 247 C. 1904 [1] 1080). C₁₁ $\mathbf{H}_{12}\mathbf{O}_{6}\mathbf{N}_{2}$ 10) Iso- β -[2-Nitro-4-Amidophenyl]propan- $\alpha\gamma$ -Dicarbonsäure. Sm. 185° (α) (B. 36, 2676 C. 1903 [2] 948). $C_{11}H_{12}O_6S$ 1) Piperonylidenacetonhydrosulfonsäure. Na + 2H₂O, K + H₂O, $Ba + 2H_2O$ (B. 37, 4050 C. 1904 [2] 1648). 7) β -[2-Nitro-4-Hydroxylamidophenyl] propan - $\alpha \gamma$ - Dicarbonsäure. $C_{11}H_{12}O_7N_2$ Sm. 165° u. Zers. NH₄ (B. 35, 2073; B. 36, 2675 C. 1903 [2] 948). $C_{11}H_{12}O_8N_4$ C 40,2 - H 3,7 - O 39,0 - N 17,1 - M. G. 328.1) Isobutylester d. 2,4,6-Trinitrophenylamidoameisensäure. Sm. 1340 (Soc. 85, 652 C. 1904 [2] 311). 1) 4-Methyl-1, 3-Phenylendi [Sulfonessigsäure]. Fl. Ba (J. pr. [2] 68, 337 $C_{11}H_{12}O_8S_2$ C. 1903 [2| 1172). $C_{11}H_{12}NJ$ *8) Jodäthylat d. Chinolin. Sm. 156—157° (B. 37, 2009 C. 1904 [2] 124). *5) Thiopyrin. HJ (A. 331, 197 C. 1904 [1] 1218). $C_{11}H_{12}N_2S$ *6) Methyläther d. 5-Merkapto-3-Methyl-1-Phenylpyrazol. Sd. 306 bis 307°, 60. HCl + H₂O, (2 HCl, PtCl₄ + 2 H₂O), HJ, HNO₃, Pikrat (A. 331, 224 C. 1904 [1] 1220; A. 331, 201 C. 1904 [1] 1218).

 7) Isothioantipyrin. Sm. 136° (B. 36, 718 C. 1903 [1] 776). 8) 4-Thiocarbonyl-2-Propyl-3, 4-Dihydro-1, 3-Benzdiazin. Sm. 182 bis 183° (C. 1903 [1] 1270). 9) 4-Thiocarbonyl-2-Isopropyl-3, 4-Dihydro-1, 3-Benzdiazin. Sm. 203 bis 204° (C. 1903 [1] 1270). 1) α -Chlor- β -Brom- α -Phenyl- γ -Methyl- α -Buten. Sd. 125—129 $^{\circ}_{10}$ (B. 37, C₁₁H₁₂ClBr 1088 C. 1904 [1] 1260). 2) α-Chlor-β-Brom-α-[2,5-Dimethylphenyl]propen. Sd. 258—261° (B. 36, 773 C. 1903 [1] 834).
 *2) δ-Phenylimido-β-Ketopentan. Sm. 51—53°; Sd. 279—281°₇₁₅ (B. 37, C11 H13 ON 1325 C. **1904** [1] 1345). 46) d-1-Acetyl-2-Methyl-2,3-Dihydroindol. Sm. 89° (Soc. 85, 1335 C. **1904** [2] 1657). 47) 1-1-Acetyl-2-Methyl-2,3-Dihydroindol. Sm. 89° (Soc. 85, 1333 C. 1904 [2] 1657). 48) 2-Oxy-3-Isopropylpseudoindol (2-Keto-3-Isopropyl-2,3-Dihydroindol). Sm. 106°. Ag (\dot{M} , 24, 568 \dot{C} . 1903 [2] 887). 49) Aldehyd d. β -[4-Dimethylamidophenyl]akrylsäure (\dot{B} . 37, 827 C. 1904 [1] 1152). 15) γ-Semicarbazon-α-Phenyl-α-Buten. Sm. 185° (B. 36, 4381 C. 1904 $C_{11}H_{13}ON_{3}$ [1] 454). 16) γ -Semicarbazon- α -Phenyl- α -Buten. Sm. 187 $^{\circ}$ (B. 37, 3183 C. 1904) [2] 991). 17) γ -Semicarbazon- α -[4-Methylphenyl] propen. Sm. 210° (B. 36, 851 C. **1903** [1] 975). 18) 2-Semicarbazon-1-Methyl-2,3-Dihydroinden. Sm. 1950 (A. 336, 6 C. 1904 [2] 1466). 19) α-Cyanmethyl-α-Aethyl-β-Phenylharnstoff. Sm. 116° (B. 37, 4092) C. 1904 [2] 1725). 20) 5-Oxy-3-Propyl-1-Phenyl-1,2,4-Triazol. Sm. 146° (B. 36, 1098 C. 1903 [1] 1140). 7) α-Bromisobutylphenylketon. Sm. 47° (B. 37, 1088 C. 1904 [1] 1260). $C_{11}H_{13}OBr$ C₁₁H₁₈O₂N *52) Aethyl-4-Acetylamidophenylketon. Sm. 175° (C. 1903 [1] 1222). 60) δ -[3-Oxyphenyl]imido- β -Oxy- β -Penten. Sm. 135° (B. 36, 4015 C. 1904 [1] 293). 61) 4-Acetylamido-2 oder-3-Acetyl-1-Methylbenzol. Sm. 105° (D.R.P. 56 971). — *III, 118. 62) Methyl-4-Propionylamidophenylketon. Sm. 136° (C. 1903 [1] 832; Soc. 85, 390 C. 1904 [1] 1404).
 - 63) 4-Methyläther d. γ-Oximido -α-[4-Oxyphenyl]-α-Buten. Sm. 119 bis 120° (A. 330, 242 C. 1904 [1] 945).
 64) 3-Keto-1-Oxy-1-Methyl-2-Aethyl-2, 3-Dihydroisoindol. Sm. 93—94° u. Zers. (B. 37, 387 C. 1904 [1] 668).
 - 65) 8-Amido-1, 2, 3, 4-Tetrahydronaphtalin-1-Carbonsäure. Sm. 160 bis 161° u. Zers. Ag + AgNO₃ (B. 35, 4222 C. 1903 [1] 166).

- C₁₁ \mathbf{H}_{18} O₂ \mathbf{N} 66) Amid d. β -Keto- α -Phenylbutan- α -Carbonsäure. Sm. 114—116° (B. 36, 2244 C. 1903 [2] 435).
- $C_{11}H_{13}O_2N_3$ 16) γ -Semicarbazon- α -[2-Oxyphenyl]- α -Buten. Sm. 206—207° u. Zers. (B. 37, 3184 C. 1904 [2] 991).

17) Methyläther d. γ -Semicarbazon- α -[4-Oxyphenyl]propen. Sm. 199° (B. 36, 854 C. 1903 [1] 976).

Aethyläther d. 3-Oxy-5-Keto-4-Methyl-1-Phenyl-4,5-Dihydro-1,2,4-Triazol. Sm. 95° (B. 36, 3148 C. 1903 [2] 1073).

19) 3,5-Diketo-4-Aethyl-1-Phenylhexahydro-1,2,4-Triazin. Sm. 135 bis 136° (B. 36, 3886 C. 1904 [1] 27).

C₁₁H₁₈O₃N *1) Corydaldin (Soc. 83, 622 C. 1903 [1] 591).

*3) Hydrastinin (Soc. 83, 623 C. 1903 [1] 591; Soc. 85, 1005 C. 1904 [2] 455, 716).
62) α-[4-Aethoxylphenyl]imidopropionsäure. Sm. 228° (G. 34 [2] 273

C. 1904 [2] 1454).
 Aethylester d. Phenacetylamidoameisensäure. Sm. 113° (B. 36,

746 *Č.* 1903 [1] 827).
64) Aethylester d. 4 - Acetylamidobenzol - 1 - Carbonsäure. Sm. 110°

(D.R.P. 151725 C. 1904 [1] 1587).
65) Aethylester d. 2-Methylphenyloxaminsäure. Sm. 40° (Soc. 81, 1571 C. 1903 [1] 158).

66) Phenylamid d. α-Acetoxylpropionsäure. Sm. 121—122° (B. 37, 3974 C. 1904 [2] 1605).

67) Phenylmonamid d. Propan - $\alpha \gamma$ - Dicarbonsäure. Sm. 126 — 127° (C. 1904 [2] 955).

68) Phenylmonamid d. Propan-ββ-Dicarbonsäure. Sm. 133° (Soc. 83, 1246 C. 1903 [2] 1421).

 $C_{11}H_{13}O_8N_3$ 15) Methylenäther d. β -Semicarbazon- α -[3,4-Dioxyphenyl] propan. Sm. 163° (4, 332, 333 (7, 1904 [2] 652).

Sm. 163° (A. 332, 333 C. 1904 [2] 652).
16) 5-oder-7-Nitro-2-Keto-1,3,4,6-Tetramethyl-2,3-Dihydrobenzimidazol.
Sm. 132° (B. 36, 3974 C. 1904 [1] 178).

17) Semicarbazon d. Verbindung $C_{10}H_{10}O_8$ (aus Isosafrol). Sm. 158° (B. 36, 3580 C. 1903 [2] 1363).

Benzylester d. α-Semicarbazonpropionsäure. Sm. 176° (C. r. 138, 985 C. 1904 [1] 1398).

N-Acetat d. β-Phenylhydrazon-α-Oximido-α-Oxypropan. Sm. 113° (Soc. 81, 1574 C. 1903 [1] 158).

 $C_{11}H_{13}O_{3}Br_{3}$ 3) $\alpha,3$ -Dimethyläther d. 2,5-Dibrom-3,4-Dioxy-1-[β -Brom- α -Oxy-propyl]benzol. Sm. 111—112° (A. 329, 26 C. 1903 [2] 1436).

4) Verbindung (aus Maticoöl). Sm. 116° (B. 35, 4361 C. 1903 [1] 331).

C₁₁H₁₃O₄N *43) β -Benzylamid d. i- α -Oxyäthan- $\alpha\beta$ -Dicarbonsäure. Sm. 131°. Benzylaminsalz (B. 37, 2125 C. 1904 [2] 439).

*44) β-Benzylamid d. d-α-Oxyäthan-αβ-Dicarbonsäure. Sm. 130—131°
 u. Zers. Na, Ag, Benzylaminsalz (B. 37, 2124 C. 1904 [2] 439).
 *45) β-Dicarbonsäure. Sm. 130—131°

*45) β -Benzylamid d. 1- α -Oxyäthan- $\alpha\beta$ -Dicarbonsäure. Sm. 130—131° (B. 37, 2125 C. 1904 [2] 439).

57) Dimethyläther d. β-Nitro-α-[3,4-Dioxyphenyl]-α-Propen. Sm. 72°
 (4. 332, 335 C. 1904 [2] 652).

58) β-Methyläther-3,4-Methylenäther d. α-Oximido-β-Oxy-α-[3,4-Dioxy-phenyl] propan. Sm. 74°; Sd. 200—205° (i. V.). HCl (A. 332, 334 C. 1904 [2] 652).

59) Acetyldamascenin. Sm. 203—204° (Ar. 242, 303 C. 1904 [2] 456).

60) Methyläthylester d. Phenylamin-NN-Dicarbonsäure. Sm. 69° (B. 37, 3681 C. 1904 [2] 1495).

61) Benzylmonamid d. r-Aepfelsäure (J. pr. [2] 70, 8 C. 1904 [2] 774).

C₁₁H₁₈O₄N₈*10) β-Phenylureïdoacetylamidoessigsäure. Sm. 176°. Ag (J. pr. [2] 70, 253 C. 1904 [2] 1464).
 11) Monoamid d. Phenylureïdobernsteinsäure. Sm. 164°. Ba, Ag

(B. 36, 3338 C. 1903 [2] 1175).

C₁₁H₁₈O₄N₅ 2) Di[Methylamid] d. 2-Nitrophenylhydrazonmethan-ua-Dicarbonsäure. Sm. 186—187° (B. 37, 4176 C. 1904 [2] 1704).

- C₁₁H₁₃O₄N₅ 3) Di[Methylamid] d. 3-Nitrophenylhydrazonmethan- $\alpha\alpha$ -Dicarbonsäure. Sm. 202—203° (B. 37, 4177 C. 1904 [2] 1704).
 - Di[Methylamid] d. 4-Nitrophenylhydrazonmethan-αα-Dicarbon-säure. Sm. 243° (B. 37, 4177 C. 1904 [2] 1704).
- C11H13O4J *1) Diacetat d. 3-Jodoso-1-Methylbenzol. Sm. 148° (A. 327, 270 C. 1903 [2] 350).
- $C_{11}H_{13}O_5N$ *18) Diäthylester d. 4-Oxypyridin-2,6-Dicarbonsäure $+H_2O$. Sm. 80 bis 81° (M. 24, 204 C. 1903 [2] 48).
 - 30) 1-Methylester-3-Aethylester d. 4-Oxybenzol-1-Carbonsäure-3-Amidoameisensäure. Sm. 158° (A. 325, 323 C. 1903 [1] 770).
- 6) Semicarbazon d. Verb. $C_{10}H_{10}O_5$. Sm. 256° u. Zers. (B. 36, 3231 C. C11H13O5N8 1903 [2] 941).
- 2) Dimethyläther d. 2,5,6-Trinitro-3,4-Dioxy-1-Propylbenzol. Sm. $C_{11}H_{13}O_8N_8$ 97,3° (B. 36, 862 C. 1903 [1] 1085).
- $\mathbf{C}_{11}\mathbf{H}_{18}\mathbf{N}_{2}\mathbf{J}$ *8) Jodmethylat d. 1-Methyl-2-[3-Pyridyl]pyrrol (J. d. Nikotyrin). Sm. 207° (C. r. 137, 861 C. 1904 [1] 104).
- $C_{11}H_{13}N_3S$ 5) α-Cyanmethyl-α-Aethyl-β-Phenylthioharnstoff. Sm. 184—185° (B. 37, 4092 C. 1904 [2] 1725).
- *1) Cytisin (B. 37, 16 C. 1904 [1] 522). $\mathbf{C}_{11}\mathbf{H}_{14}\mathbf{ON}_{2}$
 - *30) Benzylidenhydrazid d. Buttersäure. Sm. 98° (J. pr. [2] 69, 487 C. 1904 [2] 599).
 - 31) 6-Methylnitrosamido -1, 2, 3, 4-Tetrahydronaphtalin. Fl. (Soc. 85, 736 C. 1904 [2] 117, 339).
 - 32) 4-Benzylidenmorpholin. Sm. 89° (B. 35, 4476 C. 1903 [1] 404).
 - 33) Methylamid d. β -Methylamido- β -Phenylakrylsäure. Sm. 118—119° (C. 1904 [2] 905).
 - 34) Benzylidenhydrazid d. Isobuttersäure. Sm. 103° (J. pr. [2] 69, 498 C. 1904 [2] 600).
- 3) Methyläther d. $\beta\gamma$ -Dibrom- β -[4-Oxyphenyl]butan. Fl. (B. 37, 3997 C. 1904 [2] 1641). $C_{11}H_{14}OBr_{2}$
- $C_{11}H_{14}O_2N_2$ *15) α -Phenylhydrazonbutan- α -Carbonsäure. Sm. 114—115° (A. 331, 131) C. 1904 [1] 932).
 - 46) Di[3,5-Dimethyl-4-Isoxazolyl]methan. Sm. 141—142° (B. 36, 2167, 2176 C. 1903 [2] 371; A. 332, 21 C. 1904 [1] 1565).
 47) 4-Benzoylamidomorpholin. Sm. 214° (B. 35, 4476 C. 1903 [1] 404).
- *2) 1-[4-Nitrophenyl]azohexahydropyridin (C. 1903 [2] 550). $C_{11}H_{14}O_{2}N_{4}$ 5) Di [Methylamid] d. Phenylhydrazonmethan-αα-Dicarbonsäure. Sm.
 - 117—118° (B. 37, 4172 C. 1904 [2] 1703).
- C11H14O2S *2) y-[2, 4-Dimethylphenyl]sulfonpropen. Sm. 52° (J. pr. [2] 68, 309 C. 1903 [2] 1115).
- $C_{11}H_{14}O_{9}S_{9}$ 1) αα-Dimerkaptopropionäthylphenyläthersäure. Sm. 98—99° (B. 36, 302 C. 1903 [1] 500).
- $C_{11}H_{14}O_3N_2$ *39) Amid d. Benzol-l-Carbonsäure-2-Amidoesssigsäure-l-Aethylester. Sm. 180° (D.R.P. 137846 C. 1903 [1] 108).
 - 47) 5-Oxy-2,4-Di[α -Oximidoäthyl]-1-Methylbenzol. Sm. 191° (B. 36, 2164 C. 1903 [2] 370).
 - 48) α-Amidoacetylamido-β-Phenylpropionsäure. Sm. 270° u. Zers. (B. **37**, 3313 *C*. **1904** [2] 1307).
 - 49) Methylester d. α -Benzoylamidoäthylamidoameisensäure. Sm. 150° (J. pr. [2] 70, 146 C. 1904 [2] 1394).
 - 50) Aethylester d. β-Phenylureidoessigsäure. Sm. 108-109° (Am. 28,
 - 394 C. 1903 [1] 90).
 51) Aethylester d. α-[2-Methylphenyl]harnstoff-β-Carbonsäure.
 137° (Soc. 81, 1571 C. 1903 [1] 158).
- C₁₁H₁₄O₈N₄ *3) Hydrazid d. Benzoylamidoacetylamidoessigsäure. Sm. 227—230°
 - (J. pr. [2] 70, 78, 107 C. 1904 [2] 1033, 1036).
 4) α-[3-Nitrobenzyliden]amido-α-Methyl-β-Aethylharnstoff. Sm. 142 bis 143° (B. 37, 2324 C. 1904 [2] 312).
- C₁₁H₁₄O₃Br₂ *4) α ,3-Dimethyläther d. 5-Brom-3,4-Dioxy-1-[β -Brom- α -Oxypropyl]benzol. Sm. 106—107° (A. 328, 16 C. 1903 [2] 1435). C₁₁H₁₄O₃S 4) Sulton d. γ -Oxy- γ -Phenylpentan- γ ²-Sulfonsaure. Sm. 91° (B. 37,
- 3260 C. 1904 [2] 1031),

 $C_{11}H_{14}O_4N_2$ 31) 1- α -Amidoacetylamido- β -[4-Oxyphenyl] propionsäure (1-Glycyltyrosin). Sm. 165 6 (B. 37, 2495 C. 1904 [2] 425; B. 37, 3104 C. 1904 [2] 1210)

32) 2-Methyl-1,4-Phenylendi[Amidoessigsäure]. Sm. 150-160° (D.R.P. 145062 C. 1903 [2] 1037).

33) Aethylester d. 3-Nitro-4-Dimethylamidobenzol-1-Carbonsäure. Sm. 80-81° (B. 37, 1031 C. 1904 [1] 1208).

 $C_{11}H_{14}O_5N_2$ 10) 3,5-Dinitro-4-Oxy-1-tert. Amylbenzol. Sin. 65°. Ag (4. 327, 211 C. 1903 [1] 1407).

 $C_{11}H_{14}O_5Br_4$ 1) Diäthylester d. $\alpha\beta\delta\epsilon$ -Tetrabrom- γ -Ketopentan- $\alpha\epsilon$ -Dicarbonsäure. Sm. 171-172° (B. 37, 3297 C. 1904 [2] 1041).

3) Zimmtsäureäthylesterhydrosulfonsäure. K $+ 1^{1}/_{2}$ H₂O (B. 37, 4058) $C_{11}H_{14}O_5S$ C. 1904 [2] 1649).

4) 4-Methoxylbenzylidenacetonhydrosulfonsäure. Na + H₂O, K + H₂O (B. 37, 4051 C. 1904 [2] 1649). C 48,9 — H 5,2 — O 35,5 — N 10,4 — M. G. 270.

 $C_{11}H_{14}O_6N_2$

1) Dimethyläther d. 2,6-Dinitro-3,4-Dioxy-1-Propylbenzol. Sm. 66.5° (B. 36, 862 C. 1903 [1] 1085)

 Methylester d. P.-Dinitro-1-Isopropyl-P-Dihydrobenzol-4-Carbon-säure (M. 25, 470 C. 1904 [2] 333). Sm. 46°

2) Verbindung (aus Formaldehyd u. Nitromalonsäureamid). (G. 33 [1] 380 C. 1903 [2] 579). $C_{11}H_{14}O_{8}N_{9}$ C₁₁H₁₄N₂S 15) 2 - Phenylimido - 5 - Aethyltetrahydrothiazol. Sm. 89-90° (B. 37.

2481 C. 1904 [2] 419). 1) 2-Chlormethylat d. 5-Amido-3-Methyl-1-Phenylpyrazol. Sm. 192°. $C_{11}H_{14}N_3C1$

2 + PtCl₄ (B. 36, 3284 C. 1903 [2] 1190). 3) 2-Brommethylat d. 5-Amido-3-Methyl-1-Phenylpyrazol. Sm. 1960 $C_{11}H_{14}N_3Br$ (B. 36, 3284 C. 1903 [2] 1190).

 $C_{11}H_{14}Cl_2J_2$ 1) $\alpha\beta$ -Dichlorathyl-4-Methyl-2-Aethylphenyljodoniumjodid. Sm. 96° (J. pr. [2] 69, 447 U. 1904 [2] 590).

2) $\alpha \beta$ - Dichlorathyl - 4 - Methyl - 2 - Aethylphenyljodoniumchlorid. $\mathbf{C}_{11}\mathbf{H}_{14}\mathbf{Cl}_{3}\mathbf{J}$ Sm. 171° u. Zers. + HgCl₂, 2 + PtCl₄ (J. pr. [2] 69, 446 C. 1904 [2] 590)

C₁₁H₁₅ON *26) Aldehyd d. 4-Diäthylamidobenzol-1-Carbonsäure. Sm. 41° (B. 37, 861 C. 1904 [1] 1206).

*37) Diäthylamid d. Benzolcarbonsäure. Sd. 164-165° 27 (J. pr. [2] 68, 354 C. 1903 [2] 1318; B. 37, 2815 C. 1904 [2] 648).
*70) Isobutylamid d. Benzolcarbonsäure. Sm. 54° (C. r. 135, 974

C. 1903 [1] 232).

75) Aethyläther d. α -Aethylimido- α -Oxy- α -Phenylmethan. Sd. 221 bis 223°, 80 (Soc. 83, 321 C. 1903 [1] 580, 876).

76) Nitril (aus Carvon). Sm. 93,5-94,5 (C. 1904 [1] 1082).

C₁₁H₁₅ON₈ 19) γ-Semicarbazon-α-Phenylbutan. Sm. 142° (B. 37, 2313 C. 1904 [2] 217).

20) α -Semicarbazon- β -[4-Methylphenyl]propan. Sm. 152° (C. r. 137, 1261 C. 1904 [1] 445).

21) 2-Methylhydroxyd d. 5-Amido-3-Methyl-1-Phenylpyrazol. Salze siehe (B. 36, 3284 C. 1903 [2] 1190).

82) 4-Nitro-1-tert. Amylbenzol. Sd. 152-154° 16 (A. 327, 224 C. 1903) $C_{11}H_{15}O_2N$ 17 1408).

83) 1-Keto-4-Acetyl-2- $[\alpha$ -Amidoäthyliden]-5-Methyl-1,2,3,4-Tetrahydrobenzol. Sm. 136° (B. 36, 2161 C. 1903 [2] 370).

84) 4-Methyläther d. α -Oximido- α -[4-Oxy-2-Methylphenyl]propan. Sm. 94—95° (B. 37, 3993 C. 1904 [2] 1640).

85) 4-Methyläther d. α -Oximido - α -[4-Oxy-3-Methylphenyl] propan. Sm. 99° (B. 37, 3991 C. 1904 [2] 1640).

86) 6-Methyläther d. α -Oximido- α -[6-Oxy-3-Methylphenyl]propan. Sm. 92° (B. 37, 3994 C. 1904 [2] 1640).

87) 2-Aethyläther d. α -Oximido - α -[2-Oxy-4-Methylphenyl] äthan. Sm. 132 ° (C. 1904 [1] 1597).

88) Campherchinoncyanhydrin. K + xH₂O (Soc. 85, 1210 C. 1904 [2] 1119)

89) 2 - Ďiäthylamidobenzol - 1 - Carbonsäure. Sm. 120 - 121°. - |- HJ (M. 25, 487 C. 1904 [2] 325).

11 III.

- C₁₁H₁₅O₂N 90) Aethylester d. r-α-Amido-β-Phenylpropionsäure. Sd. 143°₁₀. HCl, HNO₂, Pikrat (B. 34, 450; B. 37, 1266 C. 1904 [1] 1333).
 - 91) Aethylester d. Aethylphenylamidoameisensäure. Sd. 130-130,5 14 (B: 36, 2477 C. 1903 [2] 559).
 - 92) Phenylester d. Diäthylamidoameisensäure. Sd. 150°₁₅ (270—271°) (Bl. [3] 31, 20 C. 1904 [1] 508; Bl. [3] 31, 691 C. 1904 [2] 198). 93) Dimethylamid d. 3 Oxybenzoläthyläther 1 Carbonsäure. Fl.
 - (A. 329, 71 C. 1903 [2] 1440).
- - 23) Methyläther d. β -Semicarbazon- α -[4-Oxyphenyl] propan. Sm. 175° (A. 332, 324 C. 1904 [2] 651).
 - 24) Acetylphenyläthylsemicarbazid. Sm. 92° (B. 36, 1378 C. 1903 [1] 1344).
- $C_{11}H_{15}O_2Br$ *1) Formylbromcampher. Sm. 40-42° (B. 37, 2175 C. 1904 [2] 223).
- 2) Formyljodcampher. Sm. 67-68° (B. 37, 2163 C. 1904 [2] 221). C₁₁H₁₅O₂J rormy, occampner. Sm. 07-08° (B. 37, 2103 C. 1904 [2] 221).
 Methylester d. 3-Dimethylamido-4-Oxybenzolmethyläther-1-Carbonsäure. Sd. 288°. HJ (A. 325, 325 C. 1903 [1] 770).
 β, 4-Dimethyläther d. α-Oximido-β-Oxy-β-[4-Oxyphenyl] propan. Sm. 48-49°. HCl (A. 332, 328 C. 1904 [2] 651).
 Aethylester d. 6-Oxy-2-Methyl-5-Aethylpyridin-3-Carbonsäure. Sm. 190° (G. 33 [2] 168 C. 1903 [2] 1283).
 Aethylester d. 6-Oxy-2,5-Dimethylpyridin-6-Methyläther-3-Carbonsäure. L H O. Sm. 80° (wasserfrei) (G. 33 [2] 169 C. 1903 [2] $C_{11}H_{15}O_3N$

 - bonsäure + H₂O. Sm. 80° (wasserfrei) (G. 33 [2] 169 C. 1903 [2] 1283).
- 7) Monosemicarbazon d. 3-Oxy-5-Isopropyl-2-Methyl-1,4-Benzochinon. Sm. 214—217° (A. 336, 29 C. 1904 [2] 1467). $C_{11}H_{15}O_8N_8$
 - 8) Dimethyläther d. α-Semicarbazon-α-[2,5-Dioxyphenyl]äthan. Sm. 181—182° (B. 37, 3996 C. 1904 [2] 1641).
 - 9) Dimethyläther d. α-Semicarbazon-α-[3,5-Dioxyphenyl]äthan. Sm.
 - 192° (B. 36, 2302 C. 1903 [2] 578).

 10) Aethyläther d. β-[4-Nitrophenyl]hydrazon-α-Oxypropan. Sm. 101 bis 102° (G. 33 [1] 317 C. 1903 [2] 281).
 - 11) P-Nitro-2-Oxy-1, 2, 3, 5-Tetramethyl-2, 3-Dihydrobenzimidazol. Sm. 195° (B. 36, 3972 C. 1904 [1] 178).
 - 12) 5-oder-7-Nitro-2-Oxy-1,3,4,6-Tetramethyl-2,3-Dihydrobenzimid-azol. Sm. 163° (B. 36, 3973 C. 1904 [1] 178).
 - 13) α -Phenyl- γ -Aethylsemicarbazidoessigsäure. Sm. 195° (B. 36, 3885) C. 1904 [i] 27).
 - 14) Aethylester d. α -Phenylsemicarbazidoessigsäure. Sm. 123° (B. 36,
 - 3884 C. 1904 [1] 27).

 15) Aethylester d. β-Phenylureïdomethylamidoameisensäure. Sm. 190° (J. pr. [2] 70, 251 C. 1904 [2] 1464).

 C. 49,8 H 5,7 O 18,1 N 26,4 M. G. 265.
- C11 H15 O3 N5 1) 8-Propionylamido-2, 6-Diketo-1, 3, 7-Trimethylpurin. Sm. 220° (D.R.P. 139960 C. 1903 [1] 859).
 - Hydrazid d. β-Phenylureïdoacetylamidoessigsäure. Sm. 206° u. Zers. HCl (J. pr. [2] 70, 255 C. 1904 [2] 1464).
- 2) isom. Chlorcamphocarbonsäure. Sm. 116-117° (B. 35, 4118 C. 1903 $C_{11}H_{15}O_8C1$ [1] 83).
- C₁₁H₁₅O₈Br *2) Bromcamphocarbonsäure. Sm. 105—106° (109—110°) (B. 36, 1729 C. 1903 [$\hat{2}$] 37). 6) Dimethyläther d. 4-Nitro-2,5-Dioxy-l-Propylbenzol. Sm. 640 (B.
- $C_{11}H_{15}O_4N$ 36, 856 C. 1903 [1] 1084).
 7) Dimethyläther d. 6-Nitro-3,4-Dioxy-1-Propylbenzol. Sm. 81—82°
 - (B. 36, 860 C. 1903 [1] 1085; Ar. 242, 88 C. 1904 [1] 1007). 8) Diäthyläther d. 2-Nitro-1-Dioxymethylbenzol (B. 36, 3653 C. 1903
 - [2] 1332). 9) 1-Diäthylamidoformiat d. 1, 2, 3-Trioxybenzol. Sm. 149° (B. 37, 109 C. 1904 [1] 584).
- 5) 3,5-Dinitro-4-Amido-1-tert. Amylbenzol. Sm. 71-72° (A. 327, 214 C11H15O4N3 Ć. 1903 [1] 1408).
- l) Benzoylderivat d. Methyläthylcarbinolphosphinsäure. Ag $_2$ (C. 1904) C, H, O, P [2] 1708).

C 51,4 - H 5,8 - O 37,4 - N 5,4 - M G 257.

1) Diäthylester d. 2,6-Dioxy-1,4-Dihydropyridin-4,4-Dicarbonsäure + ½H₂O. Sm. 195-196°. Na + 2H₂O, Ba + 2H₂O, Ag (M. 24, 739 C. 1904 [1] 179). $C_{11}H_{15}O_6N$ 2) 4-Nitrophenylhydrazon d. Arabinose. Sm. 168° (R. 22, 438 $C_{11}H_{15}O_6N_8$ C. 1904 [1] 15). 3) 4-Nitrophenylhydrazon d. Xylose. Sm. 156° (R. 22, 438 C. 1904 [1] 15). C 45,7 — H 5,2 — O 44,3 — N 4,8 — M. G. 289. $C_{11}H_{15}O_8N$ 1) Triäthylester d. Stickstoffcarbonsäurediketocarbonsäure (Aethoxalylcarboxäthyloxamäthan). Sd. $182-184_{9-10}^{0}$ (B. 37, 3680 C. 1904) [2] 1495). 7) Phenylamid d. Thioisovaleriansäure (B. 36, 588 C. 1903 [1] 830).
 8) α-Amido-β-Allyl-α-Benzylthioharnstoff. Sm. 61° (B. 37, 2328 C. 1904 [2] 313). $C_{11}H_{15}NS$ $C_{11}H_{15}N_{3}S$ C₁₁H₁₆ON₂ *29) Phenylhydrazid d. Isovaleriansäure. Sm. 104° (C. 1903 [1] 829; M. 24, 568 C. 1903 [2] 887). 37) γ-Ureïdobutylbenzol. Sm. 119,5° (B. 36, 3000 C. 1903 [2] 949). 38) α-[d-sec. Butyl]-β-Phenylharnstoff. Sm. 150° (Ar. 242, 70 C. 1904). [1] 999). 39) 4-Diathylamidobenzaldoxim. Sm. 93° (B. 37, 861 C. 1904 [1] 1206). 40) Limonen-β-Nitrosocyanid. Sm. 90—91° (Soc. 85, 931 C. 1904 [2] 705).
41) d-Limonennitrosocyanid. Sm. 90—91° (C. 1904 [2] 440).

C₁₁H₁₆O₂N₂ *1) Pilocarpin (C. 1903 [1] 1270; Soc. 83, 454 C. 1903 [1] 930, 1143).

*14) Isopilocarpin (Soc. 83, 458 C. 1903 [1] 930, 1143). 21) Phenylhydrazid d. α-Oxy-β-Methylpropan-β-Carbonsäure. Sm. 173° (Bl. [3] 31, 124 C. 1904 [1] 644). 7) Dimethyläther d. Benzylidendi [α-Amido-α-Imido-α-Oxymethan]. Sm. 137°. 2 HCl (C. 1904 [2] 29).
 8) 2,6-Diketo-1,3,7-Triäthylpurin. Sm. 115° (C. 1904 [2] 1497). $C_{11}H_{16}O_2N_4$ *5) d-Methyläthylphenacylsulfinhydrat. Pikrat, d-Bromcamphersulfonat (Soc. 81, 1557 C. 1903 [1] 23, 144). $C_{11}H_{16}O_{2}S$ *6) 1-Methyläthylphenacylsulfinhydrat. Pikrat, d-Bromcamphersulfonat (Soc. 81, 1557 C. 1903 [1] 23, 144).

8) Aethylester d. 3-Acetyl-4-Methyl-I-Aethylpyrazol-5-Carbonsäure. $C_{11}H_{16}O_{3}N_{2}$ Sm. 57—58° (B. 36, 1131 C. 1903 [1] 1138). C 47,1 — H 5,7 — O 17,2 — N 30,0 — M. G. 280. $C_{11}H_{16}O_8N_6$ 1) Anhydro - 2, 6 - Disemicarbazonhexahydrobenzol - 1 - Propionsäure. Sm. 278° u. Zers. (B. 37, 3825 C. 1904 [2] 1607). *1) γ-Phenylpentan-?-Sulfonsäure. Ba + H₂O (B. 36, 3694 C. 1903 [2] $C_{11}H_{16}O_8S$ 1427). *13) 2-Aethyl-1, 3, 5-Trimethylbenzol-4-Sulfonsäure. Sm. 78-80°. (B. 36, 1644 C. 1903 [2] 27). 18) α -Oxyisobutyl-4-Methylphenylsulfon (Am. 31, 166 C. 1904 [1] 875). 19) β -Phenylpentan-?-Sulfonsäure. Na, Ba + H₂O (B. 36, 3689 C. 1903 2] 1426). 20) γ -Phenyl- β -Methylbutan- β -Sulfonsäure. Ba + 2 $\mathrm{H}_2\mathrm{O}$ (B. 36, 3692) C. 1903 [2] 1426). 21) 4-Isopropyl-1-Aethylbenzol-?-Sulfonsäure. $Mg + 4H_2O$, $Zn + 4H_2O$ (B. **36**, 1641 *C*. 1903 [2] 27). 22) 5-Aethyl-1, 2, 4-Trimethylbenzol-P-Sulfonsaure. Sm. 70-72 ° (B. 36, 1642 C. 1903 [2] 27). $C_{11}H_{16}O_4N_2$ 7) Pyrazolon (aus 1-Oxy-5-Keto-1-Methylhexahydrobenzol-2, 4-Dicarbonsäurediäthylester). Sm. 2030 u. Zers. (A. 332, 16 C. 1904 [1] 1565). 8) Aethylester d. lpha-Cyan-lpha-Oxyessig-[eta-Cyan-lpha-Aethoxylpropyl]äthersäure. Sm. 63°; Sd. 220°₂₀ (C. 1904 [1] 159). 9) 3-Nitrobenzoat d. Oximidocampher. Sm. 89-90° (Soc. 85, 906 C. 1904 [2] 597). 4) α -[4-Oxyphenyl] butanmethyläther-P-Sulfonsäure (B. 37, 3999 C. 1904 [2] 1641). $C_{11}H_{16}O_4S$ 5) 3-Oxy-1-Propylbenzoläthyläther-P-Sulfonsäure. Ba (B. 37, 3990 C. 1904 [2] 1639). 6) 4-Oxy-1-Propylbenzoläthyläther-P-Sulfonsäure. Sm. $66\!-\!68$ $^{\circ}$. Ba (B. 37, 3991 C. 1904 [2] 1640).

- $C_{11}H_{16}O_4S_2$ 2) β -Aethylsulfon- β -Phenylsulfonpropan. Sm. 78-80° (B. 36, 303 C. **1903** [1] 500). 3) 2,4-Di[Aethylsulfon]-1-Methylbenzol (J. pr. [2] 68, 335 C. 1903 [2] 1172). $C_{11}H_{16}O_5N_2$ 13) Verbindung (aus γ -Amido- δ -Imidohexan- $\beta\beta\varepsilon\varepsilon$ -Tetracarbonsäure). Sm.199° (B. 35, 4127 C. 1903 [1] 136).
 1) Diäthylester d. ?-Dichlor - γ - Ketopentan - α ε - Dicarbonsäure. Sm. 60—75° (B. 37, 3297 C. 1904 [2] 1041). $C_{11}H_{16}O_5Cl_2$ C₁₁H₁₆O₅Br₂ 1) Diäthylester d. $\beta\delta$ -Dibrom- γ -Ketopentan- δ s-Dicarbonsäure. 48,5—49° (B. 37, 3296 C. 1904 [2] 1041). 4) Dimethylallylphenylammoniumjodid. C₁₁H₁₆NCl 2 + PtCl₄ (Soc. 85, 413 C. 1904 [1] 1410). *3) Jodmethylat d. 1-Methyl-1, 2, 3, 4-Tetrahydrochinolin. Sm. 173° u. Zers. (B. 36, 2570 C. 1903 [2] 727). $C_{11}H_{16}NJ$ 6) Dimethylallylphenylammoniumjodid. Sm. 86-87° (Soc. 83, 1406 C. 1904 [1] 438; Soc. 85, 412 C. 1904 [1] 1409). 7) α -[d-sec. Butyl]- β -Phenylthioharnstoff. Sm Sm. 88° (Ar. 242, 62 $C_{11}H_{16}N_2S$ C. 1904 [1] 998).
 21) α-Dimethylamido-β-Oxy-β-Phenylpropan.
 (C. r. 138, 767 C. 1904 [1] 1196). C11 H17 ON Sd. 135—136°₃₂. HCl 22) Dimethylallylphenylammoniumhydroxyd. Jodid, d-Camphersulfonat (Soc. 83, 1406 C. 1904 [1] 438). 23) d-Bornylisocyanat. Sm. 69° (72°); Sd. 114—116°, (C. 1904 [1] 1605; Soc. 85, 687 C. 1904 [2] 332; Soc. 85, 1189 C. 1904 [2] 1125).

 24) Neobornylisocyanat. Sm. 88° (Soc. 85, 1192 C. 1904 [2] 1125).

 25) Methylhydroxyd d. 1-Methyl-1, 2, 3, 4-Tetrahydrochinolin. Pikrat (B. 36, 2570 C. 1903 [2] 727).

 26) Nitril (aus Pulegon). Sm. 160,5° (C. 1904 [1] 1083).

 C₁₁H₁₇ON₈ 17) Semicarbazon d. Keton C₉H₁₄O (aus Pinen). Sm. 226—228° u. Zers.

 (C. 1903 [2] 372; Soc. 83, 1304 C. 1904 [1] 55). (C. 1805 [2] 572; 502. 53, 1304 C. 1804 [1] 93).

 2) Brommethylcampher. Sm. 65° (C. r. 136, 752 C. 1903 [1] 971).

 3) Methylbromeampher. Sm. 61° (C. r. 136, 752 C. 1903 [1] 971).

 *6) N-Methyläther d. Oximidocampher. Sd. 233°₄₈₀ u. Zers. (Soc. 85, 896 C. 1904 [2] 331, 596).

 20) Dimethyläther d. 4-Amido-2, 5-Dioxy-1-Propylbenzol. Sm. 94° $C_{11}H_{17}OBr$ $\mathbf{C_{11}H_{17}O_{2}N}$ (B. 36, 857 C. 1903 [1] 1084). 21) Dimethyläther d. 6-Amido-3,4-Dioxy-1-Propylbenzol. Sm. 59°; Sd. 169°₁₀ (B. 36, 860 C. 1903 [1] 1085). 22) O-Methyläther d. Oximidocampher. Sm. 107° (Soc. 85, 894 C. 1904 [2] 331, 596). 23) 2,5-Dimethyl-1-Butylpyrrol-3-Carbonsäure. Sm. 154° (C. 1903 [2]) 1281). 24) Aethylester d. 2,5-Dimethyl-1-Aethylpyrrol-3-Carbonsäure. Sd. 286°₇₄₈ (C. 1903 [2] 1281). $C_{11}H_{17}O_2N_3$ *2) Monosemicarbazon d. Campherchinon. Sm. 229° (B. 36, 3190 C. 1903 [2] 939). 3) 5-Nitro-3,4-Diamido-1-tert. Amylbenzol. Sm. 82-836 (A. 327, 215 C. 1903 [1] 1408). 4) β -[5-Semicarbazon-3-Keto-4-Methylhexahydrophenyl]propen. Sm. 235° (4. 330, 270 C. 1904 [1] 947). 2) Formylbrommenthon. Fl. (B. 37, 2176 C. 1904 [2] 223). $C_{11}H_{17}O_{2}Br$ 3) Aethylester d. Brom- β -Campholytsäure. Sd. $164-168^{6}_{40}$ (Soc. 83, 860 C. 1903 [2] 573).
 33) Benzoat d. Oximidocampher. Sm. 136° (Soc. 83, 527 C. 1903 [1] $\mathbf{C}_{11}\mathbf{H}_{17}\mathbf{O}_{3}\mathbf{N}$ 234, 1353; Soc. 85, 906 C. 1904 [2] 597).
 34) Benzoat d. isom. Oximidocampher. Sm. 105—106° (Soc. 83, 526) C. 1903 [1] 234, 1353).
- C₁₁H₁₇O₄N *5) Diäthylester d. α -Cyan- β -Methylpropan- $\alpha\beta$ -Dicarbonsäure (C. 1908 [1] 923; Soc. 85, 134 C. 1904 [1] 727). 10) s-Aethylester d. γ -Cyan- β -Methylpentan- β s-Dicarbonsäure. Sd. 245—250° 50 (Soc. 85, 138 C. 1904 [1] 728).
- $C_{11}H_{17}O_4P$ 3) Säure (aus d. Säure $C_4H_{11}O_3P$ u. Benzaldehyd) (C. r. 136, 235 C. 1903 [1] 564).
- $C_{11}H_{17}ClSi$ 1) Siliciumäthylpropylphenylchlorid. Sd. 240° (C. 1904 [1] 637).

7)	Nitril d. Phoronsäure (Soc. 83, 999 C. 1903 [2] 373, 666). O-Methyläther d. Oximidocampheroxim. Sm. 188° (Soc. 85, 896
8)	C. 1904 [2] 331, 596). Inn. Anhydrid d. i-1- $[\alpha$ -Amidoisocapronyl]tetrahydropyrrol-2-Carbonsäure (Leucylpyrolinanhydrid). Sm. 117—121° (B. 37, 3075)
	C. 1904 [2] 1210). Aethylester d. Cykloheptanopyrazolincarbonsäure. HCl (B. 37,
	937 \tilde{C} . 1904 [1] 1072). Aethylester d. Dibromdihydro- β -Campholytsäure. Fl. (Soc. 83,
	860 C. 1903 [2] 573). Dimethylpropylphenylammoniumjodid. Sm. 68,5° (Soc. 83, 1407)
	C. 1904 [1] 438). Formylbornylamin (Soc. 85, 1193 C. 1904 [2] 1125).
*7)	Methylamidocampher. Sd. 237—238° ₇₆₀ . (2HCl, PtCl ₄) (Soc. 85, 898 C. 1904 [2] 596).
10)	Methyl-α-Anhydropulegonhydroxylamin. Sd. 102—104%. Pikrat (B. 37, 955 C. 1904 [1] 1087).
11)	ì-Menthylisocyanat. Sd. 108—110° _{10—13} (Soc. 85, 688 C. 1904 [2] 332).
	r-4-Semicarbazon-2-Isopropyl-5-Methyl-1,2,3,4-Tetrahydrobenzol. Sm. 177—178° (A. 336, 38 C. 1904 [2] 1468).
*25)	Semicarbazon d. β -Cyklocitral. Sm. 166° (D.R.P. 138141 C . 1903 [1] 267).
	3-Semicarbazon-5-Isopropyl-2-Methyl-1, 2, 3, 4-Tetrahydrobenzol. Sm. 171—173° (B. 28, 1588). — *III, 385.
•	4-Semicarbazon-5-Isopropyl-2-Methyl-1, 2, 3, 4-Tetrahydrobenzol (Semicarbazon d. Menthenon). Sm. 135—136° (C. 1903 2] 1373).
ĺ	1-4-Semicarbazon-2-Isopropyl-5-Methyl-1,2,3,4-Tetrahydrobenzol. Sm. 173° (A. 336, 38 C. 1904 [2] 1468).
· 36)	Semicarbazon d. α-Cyklocitral. Sm. 204° (D.R.P. 138141 <i>U.</i> 1903 [1] 267).
37)	Semicarbazon d. Calaminthon. Sm. 165° (C. r. 136, 388 C. 1903 [1] 714).
38)	Semicarbazon d. Keton C ₁₀ H ₁₆ O (aus Terpinennitrosit). Sm. 173° (A. 313, 363). — *III, 386.
39)	Semicarbazon d. Keton C ₁₀ H ₁₆ O. Sm. 171—172° (Soc. 85, 643 C. 1904 [1] 1608; C. 1904 [2] 330).
· 40)	Semicarbazon d. Aldehýd $C_{10}H_{16}O$ (aus Pinen). Sm. 191° (C. 1903 [2] 372; Soc. 83, 1303 C. 1904 [1] 95).
$\mathbf{C}_{11}\mathbf{H}_{19}\mathbf{O}_{2}\mathbf{N}_{3} * 6$	Amidoformiat d. Geraniol. Sm. 124° (D.R.P. 58129). — *III, 345. 4-Semicarbazon-6-Oxy-5-Methyl-2-Isopropyl-1,2,3,4-Tetrahydro-
$C_{11}H_{19}O_2Br$ 4)	benzol. Sm. 175—176° (B. 36, 3576 C. 1903 [2] 1362). Aethylester d. 2-Brom-1, 2-Trimethyl-R-Pentamethylen-5-Car-
$C_{11}H_{19}O_3N_3$ 12)	bonsäure. Sd. $165-170^{\circ}_{70}$ (Soc. 85, 145 C. 1904 [1] 728). $\alpha - [3$ - Semicarbazon - 4 - Methylhexahydrophenyl propionsäure.
· 13)	Sm. 178—179° (B. 36, 769 C. 1903 [1] 836). Hexahydroperylester d. a-Semicarbazonpropionsäure. Sm. 182°
$C_{11}H_{19}O_4N_3$ 3)	(C. r. 138, 985 C. 1904 [1] 1398). 2,5-Diketo-4, 4-Dimethyl-1-Aethyltetrahydroimidazol-3-α-Amido-
$\mathbf{C}_{11}\mathbf{H}_{19}\mathbf{O}_{4}\mathbf{Cl}$ 3)	isobuttersäure. Sm. 140° (C. 1904 [2] 1029). Diäthylester d. γ - Chlor - β - Methylbutan - $\beta\delta$ - Dicarbonsäure. Fl. (Sec. 28, 17, 20, 100). He had been sent as $\beta\delta$ - Dicarbonsäure.
$C_{11}H_{19}O_5N_8 *2)$	(Soc. 83, 17 C, 1903 [1] 443). β-Antipepton (β-Trypsinfibrinpepton) (H. 38, 258, 269 C. 1903 [2] 210).
1.7	C 45,7 — H 6,6 — O 33,2 — N 14,5 — M. G. 289. Diathylester d. Carboxylamidoacetylamidoa
	(a-Cir'.''
-)	isom. Diäthylester d. Carboxylamidoacetylamidoacetylamidoessigsäure (β-Carbäthoxyldiglycylglycinäthylester). Sm. 148—150° (B. 36, 2102 C. 1903 [1] 1304).
$\mathbf{C}_{11}\mathbf{H}_{19}\mathbf{O_6N_5}$	C 41.6 - H 6.0 - O 30.3 - N 22.1 - M. G. 317.
	Amid d. Carboxylamidoacetylamidoacetylamidoacetylamidoessigsäure-N-Aethylester (Carbäthoxyltriglycylglycinamid). Sm. 275° u. Zers. (B. 36, 2104 C. 1903 [1] 1304).
	(, 2202 0, 4000 [1] 100 2).

2) Bornvlamidodithioameisensäure. Bornvlaminsalz (C. 1904 [1] 1605; C,H,NS, Soc. 85, 1194 C. 1904 [2] 1125).
*2) d-Bornylharnstoff. HNO₈, H₂SO₄ (Soc. 85, 1189 C. 1904 [2] 1125). C11 H20 ON2 C,H,ON 2) Semicarbazon d. α-Anhydropulegonhydroxylamin. Sm. 153-154° (B. 37, 954 C. 1904 [1] 1087). i-1-[α-Amidoisocapronyl] tetrahydropyrrol-2-Carbonsäure (i-Leucylpyrolin).
 Sm. 116-119° (B. 37, 3074 C. 1904 [2] 1209).
 Aethylester d. δε-Diamido-βηDiketooktan-γ-Carbonsäure. C11 H20 O2 N2 C11HOOAN, (A. 332, 140 C. 1904 [2] 191). C11 H20 O5 N2 2) α -Carbathoxylamidoacetylamido- γ -Methylvaleriansäure. Sm. 135,5 bis 136,5° (B. 36, 2602 C. 1903 [2] 619).

14) δ -Oximido- δ -Hexahydrophenyl- β -Methylbutan. Sm. 77° (C. r. 139, C11Ha1ON 345 C. 1904 [2] 704). 15) d-P-Menthylamid d. Ameisensäure. Sm. 117—118° (C. 1904 [2] 1046). C₁₁ $\mathbf{H}_{21}\mathbf{ON}_{3}$ 15) θ -Semicarbazon- β ζ -Dimethyl- β -Okten (Semicarbazon d. Rhodinal). Sm. 115° (C. r. 122, 737). — *III, θ 50. 16) Semicarbazon d. P-Menthon. Sm. 187—188° (C. 1904 [2] 1046). 9) γ -Oximido- β -Keto- δ -Methyldekan. Sd. 147—149° (Bl. [3] 31, 1168 C11 H21 O2N C. 1904 [2] 1701). C. 1904 [2] 1701.
Methylester d. 1, 2, 2, 5, 5-Pentamethyltetrahydropyrrol-3-Carbonsäure. Sd. 218°. HJ (B. 36, 3361 C. 1903 [2] 1185).
Methylester d. d-2-Propylhexahydro-1-Pyridylessigsäure. Sd. 244 bis 245° (B. 37, 3637 C. 1904 [2] 1510).
Aethylester d. 2, 2, 5, 5-Tetramethyltetrahydropyrrol-3-Carbonskie (B. 345). säure. Sd. 217°₇₄₈ (B. 36, 3360 C. 1903 [2] 1185).
 Aethylester d. α - Bromoktan - α - Carbonsäure. Sm. 23—24° (C. r. $C_{11}H_{21}O_{2}Br$ 138, 698 C. 1904 [1] 1066).
 Monamid d. cis-βζ-Dimethylheptan-γδ-Dicarbonsäure. Sm. 146°. Ag (Am. 30, 238 C. 1903 [2] 934). C, H, O, N 8) 2-Semicarbazon-4-[αβ-Dioxyisopropyl]-1-Methylhexahydrobenzol.
 Sm. 187° (B. 28, 2705). — *III, 375. $C_{11}H_{21}O_8N_3$ 9) α-Semicarbazon-β-Methyloktan-α-Carbonsäure. Sm. 121—121,5 (Bl. [3] 31, 1153 C. 1904 [2] 1707). C 50,2 — H 8,0 — O 36,5 — N 5,3 — M. G. 263. $C_{11}H_{21}O_6N$ 0 - [βγδεζ-Pentaoxyhexyl]imido-β-Ketopentan (Acetylacetonmannamin). Sm. 172° (C. r. 138, 505 C. 1904 [1] 872).
 Acetylacetonglukamin. Sm. 172° (C. 1904 [1] 431).
 Amid d. ε-Dimethylamido-βε-Dimethyl-β-Hexen-γ-Carbonsäure. Sm. 98°; Sd. 170° (3 86, 3363 C. 1903 [2] 1186).
 δ-Semicarbazon-ζ-Semicarbazido-βζ-Dimethyl-β-Hepten. Sm. 221° (B. 36, 4382 C. 1904 [1] 455). C11 H22 ON2 $C_{11}H_{22}O_2N_6$ (B. 36, 4382 C. 1904 [1] 455). 3) Campherphoronsemicarbazon + Semicarbazid. Sm. 135°. Pikrat (A. 331, 327 C. 1904 [1] 1567).
*3) β -Oximidoundekan. Sm. 46—47° (Soc. 81, 1593 C. 1903 [1] 29, 162).
15) α -Oximidoundekan. Sm. 72° (Bl. [3] 29, 1206 C. 1904 [1] 355). C11 H23 ON 16) 3,4,4,6-Tetramethyl-2-Isopropyltetrahydro-1,3-Oxazin. Sd. 190 bis 194°,₇₅₀. (2 HCl, PtCl₄), (HCl, AuCl₃) (*M.* 25, 856 *C.* 1904 [2] 1240). Diisoamylamid d. Ameisensäure. Sd. 132—132,6° (*B.* 36, 2476 17) Diisoamylamid d. Ameisensäure. C. 1903 [2] 559). $C_{11}H_{23}ON_3$ 2) δ -Semicarbazonmethyl- $\beta\zeta$ -Dimethylheptan. Sm. 140° (Bl. [3] 31, 306 C. 1904 [1] 1133). 3) Di[Isoamylsulfon]methan. Sm. 138—139° (B. 36, 298 C. 1903 [1] 499). 1) $\beta\beta\delta$ -Triäthylsulfonpentan. Sm. 106° (B. 37, 504 C. 1904 [1] 882). 4) α -[d-sec. Butyl]- β -Hexylthioharnstoff. Fl. (Ar. 242, 61 C. 1904 [1] 998). $C_{11}H_{24}O_4S_2$ $C_{11}H_{24}O_6S_3$

_ 11 IV _

1) Säure (aus Oenanthaldehyd). Sm. 147° (C. r. 128, 1708 C. 1904 [2] 422).

*1) Methyldiamylsulfinchlorid (J. pr. [2] 66, 464 C. 1903 [1] 561).

 $C_{11}H_{24}N_2S$

 $C_{11}H_{25}O_4P$

C11H25ClS

1) Tetrabromisopropylimid d. Benzol-1, 2-Dicarbonsäure. Sm. 155,5 C11H7O2NBr4 bis 156,5° (Sachs, Dissert., Berlin 1898). — *II, 1053.

1) 2,6-Dibrom-4-Nitrophenylpyridoniumbromid. Zers. oberh. 280°. C, H, O, N, Br, + Br₂ (J. pr. [2] 70, 36 C. 1904 [2] 1235).

$\mathbf{C_{11}H_7O_5NS_2}$	1) 3,4-Methylenäther d. 2-Thiocarbonyl-4-Keto-5-[3,4-Dioxybenzyliden]tetrahydrothiazol. Zers. bei 245° (M. 24, 516 C. 1903 [2] 837).
$\mathbf{C}_{11}\mathbf{H}_7\mathbf{O}_8\mathbf{N}_2\mathbf{Br}$	1) Amid d. α -Cyan- β -Brom- β -[3,4-Dioxyphenyl]akryl-3,4-Methylenäthersäure. Sm. 245 $^{\circ}$ (C. 1903 [2] 715).
$\mathbf{C_{11}H_7NClBr_8}$	1) Brom-4-Chlor-2, 6-Dibromphenylat d. Pyridin. Sm. 270—271° u. Zers. + Br ₂ (A. 333, 339 C. 1904 [2] 1151).
$\mathbf{C_{11}H_7NCl_2Br_2}$	1) Chlor - 4 - Chlor - 2, 6 - Dibromphenylat d. Pyridin. 2 + PtCl ₄ (A. 333, 339 C. 1904 [2] 1151).
$\mathbf{C}_{11}\mathbf{H}_8\mathbf{ONCl}$	5) 1-Naphtylchloramid d. Ameisensäure. Sm. 63° (Am. 29, 307 C. 1903 [1] 1166).
1	6) 2-Naphtylchloramid d. Ameisensäure. Sm. 75° (Am. 29, 307 C. 1903 [1] 1166).
$C_{ii}H_8ONBr_3$	1) 2,4,6-Tribromphenylhydroxyd d. Pyridin. Salze siehe (A. 333, 336 C. 1904 [2] 1151).
$C_{11}H_8O_8N_2Br_2$	2) ε-[2, 6-Dibrom-4-Nitrophenyl]imido-α-Oxy-αγ-Pentadiën. Sm. 165—166° u. Zers. (J. pr. [2] 70, 38 C. 1904 [2] 1235).
$\mathbf{C}_{11}\mathbf{H}_{8}\mathbf{O}_{3}\mathbf{N}_{2}\mathbf{S}_{2}$	1) 2-Thiocarbonyl-4-Keto-5-[3-Nitrobenzyliden]-3-Methyltetra- hydrothiazol. Sm. 233° (M. 25, 170 C. 1904 [1] 895).
,	2) 2-Thiocarbonyl-4-Keto-5-[4-Nitrobenzyliden]-3-Methyltetra- hydrothiazol. Sm. 205° (M. 25, 171 C. 1904 [1] 895).
$\mathrm{C_{11}H_8O_4N_2S}$	1) 1,3-Naphtylenharnstoff-6-Sulfonsäure (D.R.P. 146914 C. 1903 [2] 1486).
	2) 2-Phenylimido-4-Ketotetrahydrothiazol-5-Ketocarbonsäure. Sm. 221—222°. Ag ₂ (C. 1903 [1] 1258).
$\mathbf{C}_{11}\mathbf{H}_{8}\mathbf{O}_{4}\mathbf{N}_{3}\mathbf{C}\mathbf{I}$	*1) 2,4-Dinitrochlorphenylat d. Pyridin. Sm. 201° (190°). 2 + PtCl. (J. pr. [2] 68, 259 C. 1903 [2] 1064; A. 330, 361 C. 1904 [2] 1147;
$\mathbf{C_{11}H_8O_4N_3Br}$	A. 333, 296 C. 1904 [2] 1147). 1) 2,4-Dinitrobromphenylat d. Pyridin. Sm. 225° u. Zers. + Br ₂
$\mathbf{C_{11}H_8O_4N_8J}$	(A. 333, 299 C. 1904 [2] 1147). 1) 2,4-Dinitrojodphenylat d. Pyridin. + J ₂ (A. 333, 300 C. 1904 [2] 1147).
$\mathrm{C_{11}H_8O_4N_6S}$	1) 7-Phenylazo-6-Ketopurin-7 ⁴ -Sulfonsäure. Sm. noch nicht bei 270° (B. 37, 705 C. 1904 [1] 1562).
$\mathrm{C_{11}H_8O_5N_6S}$	1) 7-Phenylazo-2,6-Diketopurin-74-Sulfonsäure. Sm. noch nicht bei 265° (B. 37, 703 C. 1904 [1] 1562).
$C_{11}H_9ONS_2$	1) 2-Thiocarbonyl-4-Keto-5-Benzyliden - 3 - Methyltetrahydro- thiazol. Sm. 169° (M. 25, 169 C. 1904 [1] 895).
$\mathbf{C_{11}H_9ON_8S_2}$	2) Benzoylchrysean. Sm. 212—213° u. Zers. (B. 36, 3547 C. 1903 [2] 1379).
$\mathbf{C}_{11}\mathbf{H}_9\mathbf{O}_2\mathbf{NS}_2$	1) Methylather d. 2-Thiocarbonyl-4-Keto-5-[4-Oxybenzyliden]-tetrahydrothiazol. Sm. 130—142° u. Zers. (M. 24, 515 C. 1903
$\mathbf{C_{11}H_{0}O_{2}N_{2}Cl}$	[2] 837). 3) Chlor-3-Nitrophenylat d. Pyridin. 2 + PtCl ₄ , + AuCl ₃ (J. pr.
	[2] 70, 41 C. 1904 [2] 1235). 4) Chlor-4-Nitrophenylat d. Pyridin. + FeCl ₃ , 2 + PtCl ₄ , + AuCl ₅ (J. pr. [2] 70, 30 C. 1904 [2] 1234).
•	5) 5-Chlor-3-Methyl-1-Phenylpyrazol-1 ² -Carbonsäure. Sm. 169°. Ca, Ba + 3 H ₂ O (B. 37, 2230 O. 1904 [2] 228).
	6) 3-Cyanphenylmonamid d. Bernsteinsäuremonochlorid. Sm. 80° (C. 1904 [2] 103).
$\mathbf{C}_{11}\mathbf{H}_{9}\mathbf{O}_{2}\mathbf{N}_{2}\mathbf{Br}$	2) Brom-3-Nitrophenylat d. Pyridin. Sm. 229—230°. + FeCl ₃ (J. pr. [2] 70, 40 C. 1904 [2] 1235).
	3) Brom-4-Nitrophenylat d. Pyridin. + FeCl ₃ (J. pr. [2] 70, 31 C. 1904 [2] 1234).
$C_{11}H_9O_4N_7S$	1) 7-Phenylazo-2-Amido-6-Ketopurin-74-Sulfonsäure. Sm. noch nicht bei 270° (B. 37, 705 C. 1904 [1] 1562).
$C_{11}H_{10}ONC1$	10) 2-Chlorphenylhydroxyd d. Pyridin. Salze siehe (A. 333, 334 C. 1904 [2] 1150).
	11) 4-Chlorphenylhydroxyd d. Pyridin. Salze siehe (A. 333, 332 C. 1904 [2] 1150).
	12) 1-Chlor-4-Oxy-3-Aethylisochinolin. Sm. 124—125° (B. 37, 1693 C. 1904 [1] 1525).

C11H10NBr *4) Aethyläther d. 5-Brom-6-Oxychinolin. Sm. 80-81° (B. 36, 459 C. **1903** [1] 590). $\mathbf{C}_{11}\mathbf{H}_{10}\mathbf{ON}_{2}\mathbf{Br}_{2}$ 1) 6,8-Dibrom-4-Keto-2-Propyl-3,4-Dihydro-1,3-Benzdiazin. Sm. 238—240° (C. 1903 [2] 1195). 2) 6,8-Dibrom-4-Keto-2-Isopropyl-3,4-Dihydro-1,3-Benzdiazin. Sm. 259-260° (C. 1903 [2] 1195). 3) 6,8-Dibrom-4-Keto-2-Methyl-3-Aethyl-3,4-Dihydro-1,3-Benzdiazin. Zers. bei 170° (C. 1903 [2] 1194). 6) Methyläther d. 2-Merkapto-4-Keto-6-Phenyl-3,4-Dihydro-1,3-Diazin. Sm. 240° (Am. 29, 490 C. 1903 [1] 1310). C11 H10 ON2S $C_{11}H_{10}O_2NBr$ 4) Methyläther d. 5-Brom-6-Oxy-2-Keto-1-Methyl-1,2-Dihydrochinolin. Sm. 168—170° (B. 36, 461 C. 1903 [1] 590). *3) Jodmethylat d. Chinolin-4-Carbonsäure. Sm. 2220 u. Zers. (M. $\mathbf{C}_{11}\mathbf{H}_{10}\mathbf{O}_{2}\mathbf{N}\mathbf{J}$ **24**, 201 *C*. **1903** [2] 48). $C_{11}H_{10}O_2N_2Br_2$ 4) P-Dibrom-3-Nitro-2-Methyl-1-Aethylindol. Sm. 203 (G. 34 [2] 63 C. 1904 [2] 710). 4) Aethylester d. 5-Phenyl-1, 2, 3-Thiodiazol-4-Carbonsäure. $C_{11}H_{10}O_2N_2S$ Sm. 42° (A. 333, 4 C. 1904 [2] 780). $C_{11}H_{10}O_3NBr$ 5) Aethylester d. 5-Brom-3-Oxyindol-2-Carbonsäure. Sm. 152-1540 (D.R.P. 138845 C. 1903 [1] 547). 1) 7-Phenylazo-6-Amidopurin-74-Sulfonsäure. $C_{11}H_{10}O_3N_6S$ Sm. noch nicht bei 270° (B. 37, 706 C. 1904 [1] 1563). 1) Monoformyl - 1, 4 - Diamidonaphtalin - 6 - oder - 7 - Sulfonsäure $C_{11}H_{10}O_4N_2S$ (D.R.P. 138030, 138031 C. 1903 [1] 109). $\mathbf{C}_{11}\mathbf{H}_{10}\mathbf{O}_{5}\mathbf{N}_{8}\mathbf{Cl}_{3}$ Verbindung (aus d. Verb. $C_{11}H_9O_5N_3$). Sm. 95° u. Zers. (A. 333, 310) C. 1904 [2] 1148). $C_{11}H_{10}O_5N_8Cl_5$ 1) Verbindung (aus d. Verb. $C_{11}H_{10}O_5N_8Cl_3$) (A. 333, 311 C 1904 [2] $C_{11}H_{10}O_5N_4S$ 1) I-Phenylazo-2-Methylimidazol-4[oder 5]-Carbonsäure-1⁴-Sulfonsäure + 2H₂O. Zers. oberh. 120° (B. 37, 702 C. 1904 [1] 1562). 4) Diacetat d. 4-Chlor-3-Nitro-1-Dioxymethylbenzol. C₁₁H₁₀O₆NCl (C. 1899 [1] 836). — *III, 11.

5) Diacetat d. 4 [oder 6] - Chlor-6 [oder 4] - Nitro-2, 5-Dioxy-1-Methylbenzol. Sm. 105-107° (A. 328, 316 C. 1903 [2] 1247). 1) Diazochlorid d. Iso- β -[2-Nitro-4-Amidophenyl] propan- $\alpha\gamma$ -Dicarbonsäure (B. 36, 2676 C. 1903 [2] 948). $C_{11}H_{10}O_6N_8C1$ 1) 6,8-Dibrom-4-Thiocarbonyl-2-Methyl-3-Aethyl-3,4-Dihydro- $C_{11}H_{10}N_2Br_2S$ 1,3-Benzdiazin. Zers. bei 305° (C. 1903 [2] 1195). $C_{11}H_{11}ONBr_2$ 4) ?-Dibrom-2-Keto-3-Isopropyl-2, 3-Dihydroindol. (M. 24, 575 C. 1903 [2] 887). $C_{11}H_{11}ON_2Br$ *1) 4-Brom-3-Keto-1,5-Dimethyl-2-Phenyl-2, 3-Dihydropyrazol. Sm. 117° (A. 331, 231 C. 1904 [1] 1220) C11H11ON8Br2 1) 5-Oxy-3- $[\alpha\beta$ -Dibrompropyl]-1-Phenyl-1, 2, 4-Triazol. Sm. 128° (B. 36, 1101 C. 1903 [1] 1140). 4-[α-Semicarbazonäthyl]-5-Phenyl-1,2,3-Thiodiazol. Sm. 207°.
 Zers. (A. 325, 174 C. 1903 [1] 645).
 4-[α-Semicarbazonbenzyl]-5-Methyl-1,2,3-Thiodiazol. Sm. 217°. $C_{11}H_{11}ON_5S$ Sm. 207° u. Zers. (A. 325, 173 C. 1903 [1] 645) 3) isom. $4-[\alpha-Semicarbazonbenzyl]-5-Methyl-1, 2, 3-Thiodiazol.$ Sm. 149-150° (A. 325, 173 C. 1903 [1] 645). Lakton d. δ-Chlor-α-Phenylhydrazon-γ-Oxyvaleriansäure. Sm. 183—184° (C. r. 137, 15 C. 1903 [2] 508). $C_{11}H_{11}O_{2}N_{2}C1$ 2) Methyläther d. 5-Merkapto-3-Methyl-1-[4-Nitrophenyl]pyrazol. $C_{11}H_{11}O_{2}N_{8}S$ Sm. 135—136° (A. 331, 232 C. 1904 [1] 1220). 3) Methyläther d. 3-Brom-5-Nitro-2-Oxy-1-Methyl-1, 2-Dihydro- $C_{11}H_{11}O_3N_2Br$ chinolin. Sm. 81° (*J. pr.* [2] **45**, 184, 185). — IV, 265. 1) 2-Phenylimido-5-Oxy-2,3-Dihydro-1,3,4-Thiodiazol-3-[Aethyl- $C_{11}H_{11}O_8N_8S$ α-Carbonsäure]. Sm. 220° u. Zers. (C. 1904 [2] 1027). 1) $\alpha \gamma$ -Sulton d. β -Brom- α -Oxy- α -Phenylbutan- δ -Carbonsäure- $C_{11}H_{11}O_5BrS$ γ-Sulfonsäure (Am. 31, 253 C. 1904 [1] 1081). 2) Methyläther d. 4-Brom-5-Merkapto-3-Methyl-1-Phenylpyrazol. $C_{11}H_{11}N_2BrS$ Sm. 52° (A. 331, 229 C. 1904 [1] 1220).
6) Verbindung (aus Chlordimethyläther u. Chinolin). 2 + PtCl₄

(A. 334, 54 C. 1904 [2] 948).

 $C_{11}H_{12}ONCl$

$\mathbf{C}_{11}\mathbf{H}_{12}\mathbf{ONBr}$	6) 8-Brom-5-Formylamido-1, 2, 3, 4-Tetrahydronaphtalin. Sm. 164,5° (Soc. 85, 745 C. 1904 [2] 447).
$C_{11}H_{12}ON_2S$	18) 2-[2, 4-Dimethylphenyl]imido-4-Ketotetrahydrothiazol. Sm. 157° (O. 1903 [2] 110).
	19) 2, 4-Dimethylphenylamid d. Rhodanessigsäure. Sm. 98° (C. 1903 [2] 110).
$\mathbf{C}_{11}\mathbf{H}_{12}\mathbf{ON}_{2}\mathbf{Se}$	(C. 13 10), (1) 10), (2) 11 2, 4-Dimethylphenylamid d. Selencyanessigsäure. Sm. 148° (Ar. 241, 207 C. 1903 [2] 104).
	2) 2,5-Dimethylphenylamid d. Selencyanessigsäure. Sm. 144—1460
$\mathbf{C}_{11}\mathbf{H}_{12}\mathbf{O}_{2}\mathbf{NCl}$	(Ar. 241, 208 C. 1903 [2] 104). 5) Methyl-3-Chlor-4-Propionylamidophenylketon. Sm. 115°
	(Soc. 85, 342 C. 1904 [1] 1404). 6) Methyl-4-Propionylchloramidophenylketon. Sm. 42° (C. 1903
	[1] 832). 7) Aethyl-4-Acetylchloramidophenylketon. Sm. 75° (C. 1903 [1]
$\mathbf{C_{11}H_{12}O_{2}NBr}$	1223). 2) Aethyl-4-Acetylbromamidophenylketon. Sm. 115° (C. 1903 [1]
	1223). 3) α -oder- β -Bromäthyl-4-Acetylamidophenylketon. Sm. 122°
$\mathbf{C}_{11}\mathbf{H}_{12}\mathbf{O}_{2}\mathbf{N}_{2}\mathbf{S}$	(D.R.P. 105199 C. 1900 [1] 240). — *III, 114. 5) 5-Methylsulfon-3-Methyl-1-Phenylpyrazol. Sm. 88—90° (A. 331,
$\mathbf{C}_{11}\mathbf{H}_{12}\mathbf{O}_{2}\mathbf{N}_{4}\mathbf{S}$	228 C. 1904 [1] 1220). 2) 1-Ureido-2-Thiocarbonyl-4-Keto-5-Methyl-3-Phenyltetra-
	hydroimidazol. Sm. 206° u. Zers. (C. 1904 [2] 1027). 3) Amid d. 2-Phenylimido-5-Oxy-2, 3-Dihydro-1, 3, 4-Thiodiazol-3-
$C_{11}H_{12}O_8NCl$	[Aethyl- α -Carbonsäure]. Sm. 228° u. Zers. (C. 1904 [2] 1028). 8) α -Chloracetylamido- β -Phenylpropionsäure. Sm. 130—131° (B. 37,
	3313 C. 1904 [2] 1306). 9) Acetat d. 5-Chlor-3-Acetylamido-4-Oxy-1-Methylbenzol. Sm.
	 162—163° (A. 328, 313 C. 1903 [2] 1247). 10) 4-Chlorphenylmonamid d. Propan-ββ-Dicarbonsäure. Sm. 160°
•	(Soc. 83, 1248 C. 1903 [2] 1420).
$C_{11}H_{19}O_8NBr$	6) Aethylester d. 4-Brombenzoylamidoessigsäure. Sm. 123° (B. 36, 1647 C. 1903 [2] 32).
$C_{11}H_{12}O_8N_8S$	*4) Thiopyrintrioxyd (A. 331, 206 C. 1904 [1] 1218).
$C_{11}H_{12}O_4NC1$	3) $1-\alpha$ -Chloracetylamido- β -[4-Oxyphenyl]propionsäure (1-Chloracetyltyrosin). Sm. 155—156° (B. 37, 2494° C. 1904 [2] 425).
$\mathbf{C}_{11}\mathbf{H}_{12}\mathbf{O}_4\mathbf{N}_2\mathbf{S}$	3) O-Methyläther-S-Aethyläther d. 3-Nitrobenzoylimidomerkapto- oxymethan. Sm. 78° (C. 1904 [1] 1559).
$C_{11}H_{12}NBrMg$	1) Chinolinäthylmagnesiumbromid (B. 37, 3091 C. 1904 [2] 995).
C ₁₁ H ₁₈ ONS ₂	5) Benzylester d. Acetylmethylamidodithioameisensäure. Sm. 80° (Bl. [3] 29, 60 C. 1903 [1] 447).
$C_{11}H_{18}ON_8S$	3) 2 - [4 - Dimethylamidophenyl] imido - 4 - Ketotetrahydrothiazol (C. 1903 [1] 1258).
	4) 1-Amido-2-Thiocarbonyl-4-Keto-5-Dimethyl-3-Phenyltetra- hydroimidazol. Sm. 173° (C. 1904 [2] 1027).
$\mathbf{C_{11}H_{18}O_{2}NS_{2}}$	3) Gem. Anhydrid d. 4-Oxybenzolmethyläther-l-Carbonsäure u.
C TT 0 TT	Dimethylamidodithioameisensäure (N-Dimethylamidodithiourethan). Sm. 78-80° (B. 36, 3525 C. 1903; 23
$C_{11}H_{13}O_8NS$	9) Acetyl-2-Methylphenylamid d. Aethensulfonsäure. Sm. 60° (B. 36, 3630 C. 1903 [2] 1327).
C TT 0 TT 01	10) Acetyl-4-Methylphenylamid d. Aethensulfonsäure. Sm. 870 (B. 36, 3629 C. 1903 [2] 1327).
C ₁₁ H ₁₈ O ₈ N ₂ Cl	3) β -Chlorid d. α -Phenylhydrazín- $\alpha\beta$ -Dicarbonsäure- α -Aethylester. Fl. (B. 36, 3889 C. 1904 [1] 28).
C ₁₁ H ₁₄ ONCl	 Nitrosochlorid d. γ-Phenyl-β-Penten. Sm. 117° (B. 36, 3693 C. 1903 [2] 1426).
•	12) Nitrosochlorid d. δ -Phenyl- β -Methyl- β -Buten. Sm. 146—147° (B. 37, 2315 C. 1904 [2] 217).
$\mathbf{C_{11}H_{14}O_{2}NC1}$	 7) Nitrosochlorid d.α-[4-Oxy-2-Methylphenyl]propenmethyläther. Sm. 108° (B. 37, 3994 C. 1904 [2] 1640).
	8) Nitrosochlorid d. a-[4-0xy-3-Methylphenyl]propenmethyläther
	Sm. 117° (B. 37, 3992 C. 1904 [2] 1640).

9) Nitrosochlorid d. α-[3-Oxyphenyl]propenäthyläther. Sm. 122 bis 123° (B. 37, 3990 C. 1904 [2] 1639).
*1) Dibrompilocarpin (Soc. 83, 461 C. 1903 [1] 930, 1143). $C_{11}H_{14}O_2NC1$ $C_{11}H_{14}O_2N_2Br_2$ $\mathbf{C}_{11}\mathbf{H}_{14}\mathbf{O}_{2}\mathbf{N}_{2}\mathbf{S}$ 13) 2,4-Dimethylphenylthiohydantoïnsäure. Sm. 179° (C. 1903 [2] 110).14) Amid d. Phenylamidothioessigsäure-2-Carbonsäureäthylester. Sm. 188° (D.R.P. 141698 C. 1903 [1] 1244). $C_{11}H_{14}O_2N_8C1$ 2) Monosemicarbazon d. 6-Chlor-5-Isopropyl-2-Methyl-1, 3-Benzochinon. Sm. 230° (A. 336, 27 C. 1904 [2] 1467).

1) Jodmethylat d. ?-Nitro-1,2,5-Trimethylbenzimidazol. Sm. 297°.

+ J₂ (B. 36, 3972 C. 1904 [1] 178). $C_{11}H_{14}O_{2}N_{8}J$ 2) Jodmethylat d. P-Nitro-1, 4, 6-Trimethylbenzimidazol. Sm. 214°. - J₂ (B. **36**, 3973 C. **1904** [1] 178). $\beta\gamma$ -Dichlor- α -[2, 4-Dimethylphenyl] sulfon propan. Fl. (J. pr. [2]) C₁₁H₁₄O, Cl₂S 68, 310 C. 1903 [2] 1115).
2) Nitrosochlorid d. 3,4-Dioxy-1-Propenylbenzol-3,4-Dimethyl- $C_{11}H_{14}O_3NC1$ äther. Sm. 110° u. Zers. (A. 332, 336 C. 1904 [2] 652). 1) Amid d. 4-Methyl-1,3-Phenylendi[Sulfonessigsäure]. Sm. 230° $C_{11}H_{14}O_6N_2S_2$ u. Zers. (J. pr. [2] 68, 338 C. 1903 [2] 1172). αβ-Dichloräthyl-4-Methyl-2-Aethylphenyljodoniumbromid. Sm. 150° u. Zers. (J. pr. [2] 69, 447 C. 1904 [2] 590). C₁₁H₁₄Cl₂BrJ 1) Diäthyl-3,5-Dibrom-2-Oxybenzylamin. Sm. 141-142° (A. 332, $C_{11}H_{15}ONBr_{2}$ 221 C. 1904 [2] 203). C11H15ONS 8) 4-Aethoxylphenylamid d. Thiopropionsäure. Sm. 74-75° (B. 37, 876 *O.* 1904 [1] 1004). 1) 4-Semicarbazon-l-Dichlormethyl-1, 2, 5-Trimethyl-1, 4-Dihydro-C₁₁H₁₅ON₃Cl₂ benzol. Sm. 192° (B. 35, 4217 C. 1903 [1] 162). C₁₁H₁₅ON₅S₂ 1) Methylester d. α -Aethylamidoformyl- α -Phenylhydrazin- β -Dithiocarbonsäure. Sm. 122° (B. 36, 1376 C. 1903 [1] 1344). C11H15OCIS *1) i-Methyläthylphenacylsulfinchlorid. HgCl₂ (Soc. 81, 1559 C. 1903 l] 144). 2) İ-Methyläthylphenacylsulfinchlorid. 2 + PtCl₄ (Soc. 81, 1558) C. 1903 [1] 144). $C_{11}H_{15}OJS$ 1) i-Methyläthylphenacylsulfinjodid. HgJ, (Soc. 81, 1559 C. 1903 [1] 23, 144). C11 H15 O2 NS *1) Piperidid d. Benzolsulfonsäure. Sm. 92-93° (B. 36, 2706 C. **1903** [2] 829). 2) Sultam d. 1- $[\alpha$ -Oxyisopropyl]benzol-2-Sulfonsäureäthylamid. Sm. 40° (B. 37, 3257 C. 1904 [2] 1031). 1) α -Imido - α -[4-Dimethylamidophenyl] amidodimethylsulfid- α - $C_{11}H_{15}O_2N_3S$ Carbonsäure (4-Dimethylamidophenylthiohydantoïnsäure) (C. 1903 1] 1258) C11H15O2ClS 3) Chlorid d. β -Phenylpentan-P-Sulfonsäure. Sd. 194°_{12} (B. 36, 3689 C. 1903 [2] 1426). 4) Chlorid d. γ-Phenylpentan-P-Sulfonsäure. Fl. (B. 36, 3694
 C. 1903 [2] 1427). 5) Chlorid d. 4-Isopropyl-1-Aethylbenzol-P-Sulfonsäure. Sd. 158°₁₀ (B. 36, 1641 C. 1903 [2] 27).
1) β-oder γ-Brom-α-[2, 4-Dimethylphenyl]sulfonpropan. Fl. (J. pr. C11 H15 O2 BrS [†]2] **68,** 311 *C*. **1903** [2] 1115). 1) Chlorid d. 3-Oxy-1-Propylbenzoläthyläther-P-Sulfonsäure. Fl. $C_{11}H_{15}O_3ClS$ (B. 37, 3990 C. 1904 [2] 1639). 1) Verbindung (aus Methyleugenol). C. 1903 [2] 1363). Sm. 112—113° (B. 36, 3581 C₁₁H₁₅O₈ClHg $C_{11}H_{16}ON_2S$ *3) α -[β -Oxybutyl]- $\dot{\beta}$ -Phenylthioharnstoff. Sm. 100,5° (B: 37, 2480) C. 1904 [2] 419). 2) Chlormethylat d. 2 - Dimethylamidobenzol - 1 - Carbonsäure. + AuCl₈ (B. 37, 410 C. 1904 [1] 943). C₁₁H₁₈O₂NCl C,, H,60,NJ *1) Methylester d. Dimethylphenyljodammoniumessigsäure. Sm. 98 bis 99° (B. 37, 417 C. 1904 [1] 943).

2) Jodmethylat d. 2-Dimethylamidobenzol-I-Carbonsäuremethyl-

3) Jodmethylat d. 3-Dimethylamidobenzol-1-Carbonsäuremethylester. Sm. 220—221° u. Zers. (B. 37, 411 C. 1904 [1] 943).

ester. Sm. 153° (B. 37, 410 C. 1904 [1] 943).

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$\mathbf{C_{11}H_{16}O_{2}NJ}$	 Jodmethylat d. 4-Dimethylamidobenzol-1-Carbonsäure. Sm. 170° u. Zers. (B. 37, 412 C. 1904 [1] 943).
	5) Acetat d. Trimethyl-4-Oxyphenylammoniumjodid. Sm. 192 bis 193° (A. 334, 310 C. 1904 [2] 986).
$\mathbf{C_{11}H_{16}O_{3}NJ}$	1) Jodmethylat d. Methyldamascenin + H_2O . Sm. 164—166° (Ar. 242, 319 C. 1904 [2] 457).
	2) Jodmethylat d. 3-Dimethylamido-4-Oxybenzol-1-Carbonsäure. Sm. 190° (A. 325, 330 C. 1903 [1] 770).
$\mathbf{C_{11}H_{16}O_{8}N_{2}S}$	3) sym-Di[Dimethylamid] d. Benzol-1-Carbonsäure-2-Sulfonsäure (Am. 30, 289 C. 1903 [2] 1121).
	4) uns-Di[Aethylamid] d. Benzol-1-Carbonsäure-2-Sulfonsäure (Am. 30, 288 C. 1903 [2] 1121).
$\mathbf{C}_{11}\mathbf{H}_{16}\mathbf{O}_{5}\mathbf{N}_{8}\mathbf{C}\mathbf{I}$	1) γε-Lakton d. ζ-Chlor-β-Semicarbazon-ε-Oxyhexan-αγ-Dicarbon- säure-α-Aethylester. Sm. 118—119° (C. r. 136, 435 C. 1903 [1]
G TT 07T 01	698).
$\mathbf{C_{11}H_{17}ON_{2}Cl}$	3) Phenylamid d. Trimethylchlorammoniumessigsäure $+$ H ₂ O. Sm. 204–207° (wasserfrei). $+$ HgCl ₂ , 2 $+$ PtCl ₄ , $+$ AuCl ₃ (Δr . 241, 122 G . 1903 [1] 1023).
	4) Verbindung (aus Trimethylphenacylammoniumchloridoxim). 2 + PtCl ₄ , + AuCl ₃ (4r. 237, 232). — *III, 101.
$\mathbf{C}_{11}\mathbf{H}_{17}\mathbf{ON}_{2}\mathbf{Br}$	2) Phenylamid d. Trimethylbromammoniumessigsäure. Sm. 201 bis 203° (Ar. 241, 122 C. 1903 [1] 1023).
$\mathbf{C}_{11}\mathbf{H}_{17}\mathbf{O}_{2}\mathbf{NS}$	24) Amid d. \(\beta\)-Phenylpentan-P-Sulfonsäure. Sm. 66—67° (B. 36, 3690 C. 1903 [2] 1426).
	25) Amid d. γ-Phenylpentan-P-Sulfonsäure. Sm. 89—90° (B. 36, 3694 C. 1903 [2] 1427).
$C_{11}\mathbf{H}_{17}O_{3}\mathbf{NS}$	8) Amid d. 3-Oxy-1-Propylbenzoläthyläther-?-Sulfonsäure. Sm. 84° (B. 37, 3990 C. 1904 [2] 1639).
	9) Amid d. 4-Oxy-I-Propylbenzoläthyläther-P-Sulfonsäure. Sm. 97—98° (B. 37, 3991 C. 1904 [2] 1640).
	 10) Aethylamid d. 1-[α-Oxyisopropyl]benzol-2-Sulfonsäure + 1/2 H₂O. Sm. 109—110° (B. 37, 3255 C. 1904 [2] 1031).
$C_{11}H_{17}O_5BrS$	1) Methylester d. Bromdihydrocampholensulfocarbonsäure. Sm. 192—193° u. Zers. (C. 1903 [2] 38; Soc. 83, 1112 C. 1903 [2] 794).
$\mathbf{C}_{11}\mathbf{H}_{18}\mathbf{ON}_{3}\mathbf{Cl}$	1) Semicarbazon d. β -Chloreampher. Sm. 183° (C. 1403 [2] 373).
$C_{11}H_{18}O_8NBr$	 1) 1-1-[α-Bromisocapronyl]tetrahydropyrrol-2-Carbonsäure. Sm. 154—158° (B. 37, 3074 C. 1904 [2] 1209).
	2) r-1-[α-Bromisocapronyl]tetrahydropyrrol-2-Carbonsäure. Sm. 159,5—163° (B. 37, 3073 C. 1904 [2] 1209).
$C_{11}H_{19}O_3N_3S$	1) 2-Thiocarbonyl-4-Keto-5,5-Dimethyl-3-Aethyltetrahydroimid- azol-1-α-Amidoisobuttersäure. Sm. 110° (C. 1904 [2] 1028).
$\mathrm{C_{11}H_{20}O_{8}NJ}$	2) Jodmethylat d. r-Ecgoninmethylester. Sm. 182—182,5° (A. 326, 69 C. 1903 [1] 841).
$egin{array}{l} \mathtt{C_{11}H_{21}ONS} \\ \mathtt{C_{11}H_{22}ONJ} \end{array}$	*1) Amid d. Menthylxanthogensäure (C. 1904 [1] 1347). *2) Jodmethylat d. Lupinin (Ar. 235, 279). — *III, 663.
$C_{11}H_{22}ON_2Cl_2$	1) Di[Chlormethylat] d. 2-Di[Dimethylamido]methylfuran. 2 + 2 AuCl _s (A. 335, 378 C. 1904 [2] 1406).
$\mathbf{C_{11}H_{22}ON_2J_2}$	1) Di[Jodmethylat] d. 2-Di[Dimethylamido]methylfuran (A. 335, 377 C. 1904 [2] 1406).
$\mathbf{C_{11}H_{23}ON_2J}$	1) Jodmethylat d. 1, 2, 2, 5, 5-Pentamethyltetrahydropyrrol-3-Car-
$\mathbf{C_{11}H_{25}O_{2}N_{2}P}$	bonsäureamid. Zers. bei 255° (B. 36, 3362 C. 1903 [2] 1186). 1) Diäthylmonamid d. 1-Piperidylphosphinsäuremonoäthylester. Fl. (A. 326, 195 C. 1903 [1] 820).

- 11 V -

C₁₁H₁₀O₂N₂BrJ 1) Jodathylat d. 5-Brom-5-Nitrochinolin. Sm. 135 (215) (6. Pr. [2] 39, 306).

C₁₁H₁₁ONBrJ 1) Jodathylat d. 5-Brom-6-Oxychinolinmethyläther. Sm. 220° u. Zers. (B. 36, 460 C. 1903 [1] 590).

C₁₁H₁₁O₂N₂BrS 1) 4-Brom-5-Methylsulfon-3-Methyl-1-Phenylpyrazol. Sm. 150 bis 151° (A. 331, 231 C. 1904 [1] 1220).

C₁₁H₁₂O₃NBrS *1) 4-Bromphenylmerkaptursäure. Sm. 152—153° (C. 1903 [2] 1431). 1) 2-Brom-4-Methylphenylmonamid d. Phosphosäurediäthylester. $C_{11}H_{17}O_3NBrP$ Sm. 102° (A. 326, 239 C. 1903 [1] 868).

 $C_{11}H_{28}ON_2JS$ 1) Aethyläther d. Methyldi[Diäthylamido]oxyphosphoniumjodid. Fl. (A. 326, 162 C. 1903 [1] 761).

C₁₂-Gruppe.

*1) Acenaphtylen. Sm. 92-93° (C. 1903 [2] 44). $C_{12}H_8$

C12H10

- *1) Acenaphen. Sm. 95° (C. 1903 [2] 44). *2) Biphenyl. Sm. 70,5° (A. 332, 40 C. 1904 [2] 39; B. 37, 2531 C. 1904 [2] 447).
- 7) δ -Phenyl- β -Methyl- $\beta\gamma$ -Pentadiën. Sd. 218—220 $^{\circ}_{751}$ u. Zers. (B. 37, 2305) C,2H,4 C. 1904 [2] 215).

8) Kohlenwasserstoff (aus 1-Oxy-1-Phenylhexahydrobenzol). Sd. 133 ° 20 (C. r. 138, 1323 C. 1904 [2] 219).

- *2) α-[4-Isopropylphenyl] propen. Sd. 225-235° (B. 36, 2237 C. 1903 [2] C12H18
 - *5) 1,2,3,4,5,6-Hexahydrobiphenyl. Sm. 0°; Sd. 238°,770 (C. 1903 [2] 989). *6) α -[2,4-Dimethylphenyl] α -Buten. Sd. 226—228° (B. 36, 2237 C. 1903
 - [2] 438).
 *7) \(\alpha [2, 4, 6-Trimethylphenyl] \) propen. Sd. 223—224°₇₄₅ (B. 37, 927 C. 1904 [1] 1209).

10) α -Phenyl- β -Hexen. Sd. 108°_{16} (B. 37, 2313 C. 1904 [2] 216). 11) β -Phenyl- γ -Hexen. Sd. 84°_{10} (B. 36, 1405 C. 1903 [1] 1347). 12) d- α -Phenyl- γ -Methyl- α -Penten. Sd. $100-103^{\circ}_{9}$ (B. 37, 653 C. 1904 [1]

- 13) γ -Phenyl- β -Methyl- β -Penten. Sd. 206—207 $^{\circ}_{765}$ (B. 37, 1725 C. 1904 [1] 1515).
- 14) δ -Phenyl- β -Methyl- β -Penten. Sd. 210—211 $^{\circ}_{755}$ (B. 37, 2306 C. 1904 [2] 215).
- 15) α-Phenyl-γ-Methyl-β-Penten. Sd. 120°₂₀ (226°₇₄₉) (B. 37, 2313 C. 1904 [2] 216; B. 37, 2317 C. 1904 [2] 217).
 16) β-Phenyl-δ-Methyl-β-Penten. Sd. 207°₇₆₄ (B. 37, 2308 C. 1904 [2] 216).
 17) α-Phenyl-β-Aethyl-α-Buten. Sd. 204—206° u. ger. Zers. (B. 37, 1724 [2] 216).
- C. 1904 [1] 1515).
- 18) α -[4-Methylphenyl]- γ -Methyl- α -Buten. Sd. 221—222° (B. 37, 1089) C. 1904 [1] 1260).
- 19) 2,5-Diäthylphenyläthen. Sd. 96-97° (B. 36, 1634 C. 1903 [2] 25).
- *13) 2-Propyl-1,3,5-Trimethylbenzol. Sd. 221° (B. 37, 1719 C. 1904 [1] $C_{12}H_{18}$
 - *14) 1,3,5-Triäthylbenzol. Sd. 215°,55. + Al₂Cl₅ (B. 36, 1634 C. 1903 [2] 26; J. pr. [2] 68, 212 C. 1903 [2] 1114). *23) 1,2,4-Triäthylbenzol. Sd. 217—218°,55 (B. 36, 1634 C. 1903 [2] 25). 24) δ -Phenyl- β -Methylpentan. Sd. 197° (B. 37, 2308 C. 1904 [2] 216). 25) d- α -Phenyl- γ -Methylpentan. Sd. 220°,57 (B. 37, 654 C. 1904 [1] 938). 9) 4-Isobutyliden -1, 1, 5-Trimethyl-2, 3-Dihydro-R-Penten (Dimethylpental) (B. 23) 182 (B. 24) 183 (B. 24) 184 (B. 24) 184 (B. 24) 185 (B.

 $C_{12}H_{20}$ campholandien). Sd. 188-190° (Bl. [3] 31, 462 C. 1904 [1] 1516).

10) Kohlenwasserstoff (aus 1-Oxydodekahydrobiphenyl). Sd. 1240 (C. r. 138, 1323 C. 1904 [2] 219).

8) Kohlenwasserstoff (aus Petroleum). Sd. 205-210°, (C. 1904 [1] 61). $\mathbf{C_{12}H_{22}}$

— 12 II —

1) 2,4,6,2',4',6'-Hexachlorbiphenyl. Sm. 112,5° (A. 332, 56 C. 1904 C12H4Cl6

*1) 7,8-Acenaphtenchinon (G. 33 [1] 36 C. 1903 [1] 881).
*2) Anhydrid d. Naphtalin-1,8-Dicarbonsäure Sm. 266° (B. 36, 967 C. 1903 [1] 1087; G. 33 [2] 129 C. 1903 [2] 1181). $C_{12}H_6O_2$ $C_{12}H_6O_3$

3) Anhydrid d. 4-Oxynaphtalin-1,8-Dicarbonsäure. Sm. 257° (A. 327, $C_{12}H_6O_4$ 87 C. 1903 [1] 1228).

*1) Benzolhexacarbonsäure (Bl. [3] 31, 135 C. 1904 [2] 724).
*2) Thiophansäure. Sm. 242—245° (A. 327, 343 C. 1903 [2] 509).
8) Diazoacenaphtylen. Sm. 164° (G. 33 [1] 48 C. 1903 [1] 882).
1) 2,4,2',4'-Tetrachlorbiphenyl. Sm. 83° (A. 332, 55 C. 1904 [2] 40).
2) 3,4,3',4'-Tetrachlorbiphenyl. Sm. 172°; Sd. 230°₆₀ (Noc. 85, 7 C. 1904 [1] 576 760. C12H6O12 $C_{12}H_6N_2$ $C_{12}H_6Cl_4$ [1] 376, 728). 1) 3,3',7-Trijoddiphenyljodoniumjodid (B. 37, 1309 C. 1904 [1] 1340). *3) 2-Phenyl-1,4-Benzochinon. Sm. 114° (B. 37, 879 C. 1904 [1] 1142. $C_{12}H_7J_5$ C12 H 8 O2 18) 1,8-Lakton d. 4-oder-5-Oxy-1-Dioxymethylnaphtalin-8-Carbon- $C_{12}H_8O_4$ säure. Sm. 100° (A. 327, 89 C. 1903 [1] 1228). $C_{12}H_8O_7$ *1) Purpurogallinearbonsaure. Sm. noch nicht bei 330° (Soc. 83, 199 C. 1903 [1] 640; Soc. 85, 247 C. 1904 [1] 798, 1005). *6) Phenazon. Sm. 156°. (2 HCl, ZnCl₃) (B. 37, 25 C. 1904 | 1 | 523). *1) 4,4'-Dichlorbiphenyl. Sm. 148°; Sd. 315° (A. 332, 54 C. 1904 | 2 | 40). 2) 3,3'-Dichlorbiphenyl. Sm. 29° (23°); Sd. 298° (322—324°) (Sw. 85, 7 C. 1904 [1] 376, 728; A. 332, 54 C. 1904 [2] 40). $C_{12}H_8N_2$ C₁₂H₈Cl₂ 4) 3,3'-Dibrombiphenyl. Sm. 53° (A. 332, 57 C. 1904 [2] 41).
1) Di[3-Jodphenyl]jodoniumjodid. Sm. 141° (B. 37, 1308 C. 1904 [1] C12H8Br2 $C_{12}H_8J_4$ 1340). $C_{12}H_9N$ *1) Carbazol. Sm. 238° (A. 332, 84 C. 1904 [1] 1571). 7) 7,8-Imidoacenaphten. Sm. 97°. HCl, (2HCl, PtCl₄), Acetat (G. 33 [1] 49 *C.* 1903 [1] 882). *4) 2-Phenyl-2,1,3-Benztriazol. Sm. 109,5° (B. 36, 3825 U. 1904 [1] 18). *1) 3-Bromacenaphten. Sm. 52°; Sd. 335°. Pikrat (A. 327, 85 U. 1903 C12H2N $C_{12}H_9Br$ [1] 1228). $C_{12}H_9J$ 1) 4-Jodbiphenyl. Sm. 111° (A. 332, 52 C. 1904 [2] 40). $C_{12}H_9J_9$ 2) 3-Joddiphenyljodoniumjodid. Zers. bei 89° (B. 37, 1307 C. 1904 [1] 1340). *1) 2-Oxybiphenyl. Sm. 67,7° (Am. 29, 125 C. 1903 [1] 705) *2) 4-Oxybiphenyl (Am. 29, 124 C. 1903 [1] 705). $C_{12}H_{10}O$ *3) Diphenyläther. Sm. 26,9-27°; Sd. 258,97° (C. 1904 [1] 1204). 7) 3-Oxybiphenyl. Sm. 78° (B. 36, 4085 C. 1904 [1] 268). $\mathbf{C_{12}H_{10}O_{2}}$ 24) 3,4-Dioxybiphenyl? Sm. 136-136,5°; Sd. oberh. 360° (Am. 29, 128 C. 1903 [1] 705). 25) isom. ?-Dioxybiphenyl. Sm. 147,5-148,5° (Am. 29, 129) (1. 1903) [1] 705). 26) 2-Oxydiphenyläther. Sm. 105—106° (Am. 29, 127 (f. 1903 [1] 705). 27) Methyl-4-Oxy-l-Naphtylketon. Sm. 98° (B. 25, 3534). — *III, 141. 28) Benznorcaradiëncarbonsäure. Sm. 165—166°. Ag (B. 36, 3506) C. 1903 [2] 1273).
 Lakton d. δ-Oxy-α-Phenyl-αη-Pentadiën-β-Carbonsäure. bis 63° (A. 319, 187 C. 1902 [1] 106). — *II, 986. *3) 3,3'-Dioxydiphenyläther (B. 36, 3051 C. 1903 [2] 1008). $C_{12}H_{10}O_3$ *27) Anhydrid d. β-Phenyl-β-Buten-γδ-Dicarbonsaure. Sm. 112---114° (B. 37, 1622 C. 1904 [1] 1419). 32) 2-Oxynaphtalinmethyläther-1-Carbonsäure. Sm. 176° u. Zers. (Bl. [3] 17, 311; C. r. 136, 617 C. 1903 [1] 881; Bl. [3] 31, 32 C. 1904 [1] 519). — *II, 989. 33) s-Keto- α -Phenyl- $\alpha\gamma$ -Pentadiën-s-Carbonsäure + H.O (Cinnamyliden-brenztraubensäure). Sm. 75° (107° wasserfrei) (B. 37, 1319 (J. 1904) [1] 1344). 34) 1-Keto-3-Methylinden-2-Methylcarbonsäure. Sm. 154-155° (B. 37, 1620 C. 1904 [1] 1419). 35) Lakton d. 3-Keto-1-Oxy-1-Methyl-2,3-Dihydroinden-2-Methylcarbonsäure. Sm. 179,5° (B. 37, 1621 C. 1904 [1] 1419). 36) Benzylester d. Isobrenzschleimsäure. Sm. 71 (C. r. 137, 992 O. 1904 [1] 291). *22) Anhydrid d. α -Keto- α -Phenylbutan- γ δ -Dicarbonsäure. (C. 1903 [2] 944). C12H10O4 38) Acetat d. 6-Oxymethyl-1, 2-Benzpyron. Sm. 108-109°; Sd. 205 bis 207°₁₀ (B. 87, 193 C. 1904 [1] 660). 28) Anhydrid d. Triacetsäurelakton. Sd. 170—172°₁₈ (B. 37, 3390 $C_{12}H_{10}O_5$ C. 1904 [2] 1220).

C12H10O5 29) Aldehyd d. 4, 5-Dioxy-3-Acetoxyl-1-Aethenylbenzol-4, 5-Methylenäther-2-Carbonsäure. Sm. 84-85° (B. 36, 1533 C. 1903 [2] 52). 30) Aethylester d. 4-Oxy-1, 2-Benzpyron-3-Carbonsäure. (B. 36, 464 C. 1903 [1] 636).
31) Verbindung (aus 1,2,3-Trioxy-9, 10-Anthrachinon).
(M. 22, 588). — *III, 310. Sm. 197°. Ag. C12H10O6 18) trans-I-Phenyl-R-Trimethylen-12, 2, 3-Tricarbonsäure. Sm. 273 bis 275° u. Zers. Ag₃ (B. 36, 3507 C. 1903 [2] 1274). 19) 7,8-Dioxy-1,4-Benzpyrondimethyläther-2-Carbonsäure. Sm. 2720 (B. 36, 127 C. 1903 [1] 468). 20) αγ-Lakton d. α-Oxy-α-Phenylpropan-βγγ-Tricarbonsäure + 4H₂O (Phenylparakoncarbonsäure). Sm. 188°. K (B. 25, 1153; B. 36, 3776 Anm. C. 1904 [1] 41). — II, 2018. 21) Diacetat d. 5,6-Dioxy-2-Keto-1,2-Dihydrobenzfuran. Sm. 106° (B. 37, 820 C. 1904 [1] 1151). 4) Areolatin. Sm. 270° (J. pr. [2] 68, 59 C. 1903 [2] 513).

*1) Azobenzol. (2HCl, PtCl,) (D.R.P. 141535 C. 1903 [1] 1283; B. 36, 4109 C. 1904 [1] 272; C. 1904 [2] 1383).

*4) 3-Amidocarbazol. Sm. 254°. Pikrat (A. 332, 99 C. 1904 [1] 1570).

*6) 2-Methyl-β-Naphtimidazol. Chromat (Soc. 83, 1196 C. 1903 [2] 1444). $C_{12}H_{10}O_7$ $C_{12}H_{10}N_2$ 13) $4 - [\beta - \text{Phenyläthenyl}] - 1, 3 - \text{Diazin.}$ Sm. $72 - 74^{\circ};$ Sd. $325 - 327^{\circ}_{766}$ (B. 36, 3384 C. 1903 [2] 1193). 14) $2 - \text{Methyl} - \alpha - \text{oder} - \beta - \text{Naphtimidazol} + H_2\text{O.}$ Sm. 264° u. Zers. $\text{HCl} + \text{H}_2\text{O}, \text{H}_2\text{CrO}_4 + 2\text{H}_2\text{O}, \text{Pikrat (Soc. 83, 1190 C. 1903 [2] 1444).}}$ 15) Nitril d. 1 - Naphtylamidoessigsäure. Sm. $45 - 46^{\circ}$ (B. 37, 4082) C. 1904 [2] 1723).
 16) Nitril d. 2-Naphtylamidoessigsäure. Sm. 82—85° (B. 37, 4082 C. 1904 [2] 1723). 17) Verbindung (aus Tryptophan) (C. 1903 [2] 1012). *6) 2,3-Diamido-5,10-Naphtdiazin (B. 35, 4302 C. 1903 [1] 344). $C_{12}H_{10}N_4$ *8) 3,8-Diamido-5,6-Naphtisodiazin (Diamidodiphenazon). Sm. 265° (C. 1904 [1] 1614; B. 37, 28 C. 1904 [1] 523).
*1) Diphenyldisulfid (Bl. [3] 29, 762 C. 1903 [2] 620). $C_{12}H_{10}S_2$ 2) Di[4-Merkaptophenyl]sulfid. Sm. 116,5°; Sd. 147,5-148,5°₁₁. Na₂, $C_{12}H_{10}S_3$ Pb (R. 22, 361 C. 1904 [1] 23). *1) Quecksilberdiphenyl. Sm. 120° (B. 37, 1127 C. 1904 [1] 1258).
*1) Diphenyldiselenid. Sm. 62° (Bl. [3] 29, 763 C. 1903 [2] 620).
*3) 4-Amidobiphenyl (B. 37, 881 C. 1904 [1] 1143).
*4) 3-Amidoacenaphten. Sm. 108° (A. 327, 81, 94 C. 1903 [1] 1227).
10) 3-Amidobiphenyl. Sm. 30°; Sd. 254°. H₂SO₄ (B. 36, 4084 C. 1904 [1] 1269. B 27, 829 C 1004 [1] 1142). $C_{12}H_{10}Hg$ $C_{12}H_{10}Se_2$ $C_{12}H_{11}N$ [1] 268; B. 37, 882 C. 1904 [1] 1143) 3 - Benzylpyridin. Sm. 34; Sd. 286-287°, (2 HCl, PtCl₄), Pikrat (B. 36, 2709, 2711 C. 1903 [2] 837).
 2-Methyl-4-Phenylpyridin. Sd. 280°. Pikrat (B. 36, 2458 C. 1903 [2] 671). *1) Diazoamidobenzol (B. 36, 910 C. 1903 [1] 974; C. r. 137, 1264 C. 1904 $C_{12}H_{11}N_3$ *6) 4-Amidoazobenzol. HCl (B. 36, 3965 C. 1904 [1] 162).
*8) 5-Amido-2-Methyl-α-oder-β-Naphtimidazol + 3¹/₂(9¹/₂)H₂O. Zers. bei 265°. Acetat + H₂O (Soc. 83, 1185 C. 1903 [2] 1443).
*12) isom. 5-Amido-2-Methyl-α-oder-β-Naphtimidazol. (2HCl, HgCl₂) + 5H₂O), Oxalat (Soc. 83, 1198 C. 1903 [2] 1445). *2) 2-Oxy-1,4-Dimethylnaphtalin (C. 1903 [2] 1377). C12H12O *9) γ -Keto- α -Phenyl- α -Hexin. Sd. 148-150 $^{\circ}_{18}$ (C. r. 137, 796 C. 1904) *1) Dimethyläther d. 2,7-Dioxynaphtalin. Sm. 135°; Sd. 319°731 (A. 327, $C_{19}H_{19}O_{2}$ 117 C. 1903 [1] 1214). *16) Dimethyläther d. 2,3-Dioxynaphtalin. Sm. 116,5° (B. 36, 569 C. 1903 [1] 702). 18) Dimethyläther d. 1,5-Dioxynaphtalin. Sm. 174—175° (B. 36, 569 C. 1903 [1] 702). 19) Dimethyläther d. 2,6-Dioxynaphtalin. Sm. 149,5° (B. 36, 570 C. 1903 [1] 702).

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20) 7 - Oxy - 4 - Methylen - 2, 3 - Dimethyl-1, 4-Benzpyran. HCl + H_2O,
C_{12}H_{12}O_2
                         (2 HCl, PtCl<sub>4</sub>), (HCl, AuCl<sub>3</sub>) Pikrat (B. 36, 191 C. 1903 [1] 469; B. 37, 1792 C. 1904 [1] 1611).
                   21) α-Phenyl-αγ-Pentadiën-s-Carbonsäure. Sm. 111-112°. Ca + 2H<sub>a</sub>O,
                         Ba + 2H_2O, Ag (A. 331, 162 C. 1904 [1] 1211).
                   22) 1 - [\beta - Phenyläthenyl] - R - Trimethylen - 2 - Carbonsäure. Sm. 130°
                         (B. 37, 2104 C. 1904 [2] 104).
                   23) Methylester d. \alpha - Phenyl - \alpha \gamma - Butadiën-\delta-Carbonsäure. (4. 336, 198 C. 1904 [2] 1731).
                 *25) \gamma-Keto-\alpha-Phenyl-\alpha-Penten-\epsilon-Carbonsäure. Sm. 120° (123°) (B. 23,
C_{12}H_{12}O_{8}
                         (4, A. 258, 129; B. 37, 1320 C. 1904 [1] 1345). - *II, 986.

(4; H. 203, 123; B. 37, 1320 C. 1804; [1] 1043). — 11, 300.
(28) 5,7-Dioxy-4-Methylen-2,3-Dimethyl-1,4-Benzpyran + H<sub>2</sub>O. HCl + H<sub>2</sub>O, Pikrat (B. 37, 1799 C. 1904 [1] 1612).
(29) 6,7-Dioxy-4-Methylen-2,3-Dimethyl-1,4-Benzpyran. HCl + 2½H<sub>2</sub>O, Pikrat (B. 37, 1796 C. 1904 [1] 1612).
(30) 7,8-Dioxy-4-Methylen-2,3-Dimethyl-1,4-Benzpyran. HCl + H<sub>2</sub>O, Pikrat (B. 37, 1706 C. 1004 [1] 1612).

                         Pikrat (B. 37, 1797 C. 1904 [1] 1612).
                   31) s-Oxy-α-Phenyl-αγ-Pentadiën-s-Carbonsäure. Sm. 145° (B. 37, 1320
                         C. 1904 [1] 1344).
                   32) Acetat d. \gamma-Keto-\alpha-[4-Oxyphenyl]-\alpha-Buten. Sm. 80—81° (B. 36,
                         134 C. 1903 [1] 458).
                   *5) cis-trans-\beta-Phenyl-\beta-Buten-\gamma\delta-Dicarbonsäure. Sm. 171° (B. 37,
C19H19O4
                         1619 C. 1904 [1] 1419).
                 *35) δ-Phenyl-α-Buten-αα-Dicarbonsäure. Sm. 124° (B. 37, 3123 C. 1904
                         [2] 1217)
                 *36) \alpha-Phenyl-\beta-Buten-\delta\delta-Dicarbonsäure. Sm. 112°. Ag<sub>2</sub> (B. 37, 3121
                         C. 1904 [2] 1217)
                 *37) cis-\beta-Phenyl-\beta-Buten-\gamma\delta-Dicarbonsäure. Sm. 1830 (B. 37, 1619)
                         O. 1904 [1] 1419).
                   46) Dimethyläther d. 7,8-Dioxy-2-Methyl-1,4-Benzpyron + II<sub>2</sub>O. Sm. 102° (wasserfrei) (B. 36, 2192 C. 1903 [2] 384).
47) Podophylloresin (Soc. 73, 221). — *III, 474.
                   48) Dioxynorcarencarbonsäure. Sm. 203° u. Zers. (B. 36, 3507 C. 1903
                         [2] 1274).
                   49) 4-Oxymethylbenzfuranäthyläther-1-Carbonsäure. Sm. 163—164°.
                        Ca (B. 37, 198 C. 1904 [1] 661).
                 *11) \alpha-Keto-\alpha-Phenylbutan-\gamma\delta-Dicarbonsäure. Sm. 160° (\mathcal{C}. 1903 [2]
C_{12}H_{12}O_{5}
                 *22) \alpha-Phenylpropan-\alpha\beta\gamma-Tricarbonsäure + H<sub>2</sub>0. Sm. 110° (M. 24, 371
C_{12}H_{12}O_6
                         C. 1903 [2] 496).
                   *4) 2,4'-Diamidobiphenyl. Sm. 57—58° (B. 36, 4090 C. 1904 [1] 269).
*6) 4,4'-Diamidobiphenyl (D.R. P. 147852 C. 1904 [1] 133).
\mathbf{C_{12}H_{12}N_{2}}
                 *10) s-Diphenylhydrazin (B. 36, 339 C. 1903 [1] 633).

*2) 3,3'-Diamidoazobenzol. Sm. 156° (J. pr. [2] 67, 265 C. 1903 [1] 1221).

*2) 1-Aethylamidonaphtalin. Sd. 292—323° (C. 1903 [1] 998).

*3) 2-Aethylamidonaphtalin. Sd. 322—336° (C. 1903 [1] 998).
\mathbf{C}_{12}\mathbf{H}_{12}\mathbf{N}_{4}
C_{12}H_{13}N
                   *3) 2-Aethylamidonaphtalin. Sd. 322-336 (43) (C. 1903 [1] 998).
*3) 4,4'-Diamidodiphenylamin. Sm. 158° (D. R. P. 139568 C. 1903 [1] 746).
C_{12}H_{13}N_{3}
                    2) \alpha-Tetraamidocarbazol. 4HCl (B. 37, 3598 C. 1904 [2] 1505). 3 \beta-Tetraamidocarbazol. 4HCl (B. 37, 3598 C. 1904 [2] 1505). 4 \gamma-Tetraamidocarbazol. 4HCl (B. 37, 3598 C. 1904 [2] 1505). 5) \delta-Tetraamidocarbazol. 4HCl (B. 37, 3598 C. 1904 [2] 1505).
C_{12}H_{13}N_{5}
                 *10) η-Keto-α-Phenyl-δ-Methyl-α-Penten. Sd. 284—286° 760 (Soc. 81, 1489
C_{12}H_{14}O
                         °C. 1903 [1] 138).
                  *4) αγ-Diketo-α-Phenylhexan. Sd. 152-155°<sub>10</sub> (C. r. 139, 209 C. 1904
C12H14O2
                         21 649).
                 *14) Diäthýlphtalid. Sm. 54° (B. 37, 736 C. 1904 [1] 1078).
                  28) Aethyläther d. \alpha-Oxy-\gamma-Keto-\alpha-Phenyl-\alpha-Buten. Sd. 167—169 \frac{\alpha}{20}
                         (Soc. 85, 1180 C. 1904 [2] 1216).
                  29) \beta\delta-Diketo-\gamma-Benzylpentan. Sd. 151—152^{\circ}_{16} (A. 330, 235 C. 1904
                         1] 945).
                  30) Trimethyl-m-Biscyklohexenon. Sm. 136°; Sd. 320°_{764} (B. 36, 2150
                        C. 1903 [2] 369).
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31) isom. Trimethyl-m-Biscyklohexenon. Sm. 64° ; Sd. 280°_{754} (B. 36,

2150 C. 1903 [2] 369).

32) α -Phenyl- β -Penten- ε -Carbonsäure. Sm. 88°. Ba + 2H₂O, Ag (A. 331, 163 C. 1904 [1] 1211). C19 H14 O9 33) Lakton d. α-Oxy-α-Phenylpentan-y-Carbonsäure. Sm. 30° (C. 1904) [1] 1259). 34) Lakton d. α -Oxy- α -Phenylbutan- β -Methylcarbonsäure. Sm. 88°; Sd. 165% (C. 1904 [1] 1258). 35) Aethylester d. α-Phenylpropen-α-Carbonsäure. Sd. 128-131°₁₅
 (B. 36, 2253 C. 1908 [2] 436). 36) Aethylester d. β -Phenylpropen- α -Carbonsäure. Sd. 133 –135% (269) bis 271°) (B. 37, 1092 C. 1904 [1] 1262; C. r. 138, 987 C. 1904 [1] 37) Aethylester d. trans-1-Phenyl-R-Trimethylen-2-Carbonsäure. Sm. 39°; Sd. 144—148°₁₅ (B. 36, 3783 C. 1904 [1] 42).
*12) α-Keto-α-Phenylpentan-γ-Carbonsäure. Sm. 87° (C. 1904 [1] 1259).
*40) Aethylester d. β-Benzoylpropionsäure. Sd. 184°₂₂ (C. 1904 [1] 1259).
56) Anhydrobis -1, 4-Diketohexahydrobenzol. Sm. 133° (B. 37, 3488) $C_{12}H_{14}O_{8}$ C. 1904 [2] 1301). 57) μ -[2-Aethoxylphenyl]propen - γ -Carbonsäure (γ -[2-Aethoxylphenyl]isocrotonsäure). Sm. 130—131°. Ag (B. 37, 3988 C. 1904 [2] 1639). 58) α-[3-Aethoxylphenyl]propen-γ-Carbonsäure. Sm. 98° (B. 37, 3989 C. 1904 [2] 1639). 59) β -Benzoylbutan- α -Carbonsäure. Sm. 78,50 (C. 1904 [1] 1258). 60) Aethylester d. 1-Aethylbenzol-4-Ketocarbonsäure. Sd. 186-1880 30 (C. r. 136, 558 C. 1903 [1] 832). *1) 3, 4-Methylenäther-2, 5-Dimethyläther d. 2, 3, 4, 5-Tetraoxy-1-Allylbenzol (Apiol) (B. 36, 1714 C. 1903 [2] 113; B. 36, 3455 C. 1903 [2] 1177; Ar. 242, 336, 344 C. 1904 [2] 525).
*2) Dillapiol (4, 5-Methylenäther-2, 3-Dimethyläther d. 2, 3, 4, 5-Tetraoxy-1-1042 [2] 525). C,9H,4O, 1-Allylbenzol (Ar. 242, 339 C. 1904 [2] 524; Ar. 242, 346 C. 1904 [2] 525). *3) Isoapiol. Pikrat (C. 1904 [2] 954). *4) Dillisoapiol (4,5-Methylenäther-2,3-Dimethyläther d. 2,3,4,5-Tetraoxy-1-Propenylbenzol). Pikrat (Ar. 242, 340 C. 1904 [2] 525; C. 1904 [2] 954). 56) α-[2,5-Dioxyphenyl]propen-2,5-Dimethyläther-β-Carbonsäure. Sm. 113° (B. 36, 859 C. 1903 [1] 1084). 57) Dimethylester d. α -Phenyläthan- $\alpha\beta$ -Dicarbonsäure. (M. 24, 423 C. 1903 [2] 622). 58) 5-Aethylester d. 1,3-Dimethylbenzol-2,5-Dicarbonsäure. Sm. 189 bis 190° (Am. 20, 811). — *II, 1070.
59) α-Acetat d. 3,4-Dioxy-I-[α-Oxypropyl]benzol-3,4-Methylenäther. Sd. 182—185% (C. 1904 [2] 1568).
*12) 1,2-Lakton d. 3,4-Dioxy-I-Dioxymethylbenzol-3,4-Dimethyläther-C12H14O5 1-Aethyläther-2-Carbonsäure. Sm. 92° (B. 36, 1581 C. 1903 [1] 1398). *21) Diäthylester d. 4-Oxybenzol-1, 3-Dicarbonsäure. Sm. 57° (B. 37, 2122 C. 1904 [2] 438). 38) β -[2,4,6-Trioxyphenyl]akryltrimethyläthersäure. Sm. 218° u. Zers. (M. 24, 868 C. 1904 [1] 368). 39) Aethylester d. 2,4-Dioxybenzoldimethyläther-1-Ketocarbonsäure (Bl. [3] 17, 946). — *II, 1122. 2-Methoxylphenylester d. α -Acetoxylpropionsäure. Sd. 180°_{18} (B. 37, 3973 C. 1904 [2] 1605). 40) 2-Methoxylphenylester d. Sm. · 71°; 32) α -[3,4-Dioxyphenyl] äthan-3,4-Dimethyläther- $\beta\beta$ -Dicarbonsäure. C12H14O6 Sm. 80° (C. 1904 [2] 903).
33) Methylester d. 2-Acetoxyl-3, 4-Dioxybenzol-3, 4-Dimethyläther-1-Carbonsäure. Sm. 62-64° (M. 25, 512 C. 1904 [2] 1118). 9) Pyrogalloldiglykolmonoäthyläthersäure. Sm. 108-1096 (D.R.P. C12H14O7 155568 C. 1904 [2] 1443). 10) Monoäthylester d. Glutakonylglutakonsäure. Sm. 218—220° u. Zers. (C. r. 136, 694 C. 1903 [1] 960).

11) Monoäthylester d. 6-Oxy-1, 4-Dihydrobenzol-1, 3-Dicarbonsäure-4-Methylcarbonsäure. Sm. 154° u. Zers. (B. 37, 2119 C. 1904 [2] 438). 12) Diäthylester d. 2,4,6-Trioxybenzol-1,3-Dicarbonsäure. Sm. 1070 (Soc. 85, 166 C. 1904 [1] 163, 722).

2) Diäthylester d. αγδζ-Tetraketohexan-αζ-Dicarbonsäure. Sm. 126° (B. 36, 958 C. 1903 [1] 1019). C12H14O8

*22) 3,4,5-Trimethyl-l-Phenylpyrazol. Sd. 287—290°, 60. HCl, (2HCl, PtCl₄), (HCl, AuCl₃), Pikrat, Pikrolonat (B. 36, 1277 C. 1903 [1] 1253; B. 36, 3989 C. 1904 [1] 172; B. 37, 3525 C. 1904 [2] 1314).
23) 3-Aethyl-5-Phenylpyrazol. Sm. 82°; Sd. 205—207°, (C. r. 139, 296 $C_{12}H_{14}N_{2}$ C. 1904 [2] 710).
*1) 2,4,2',4'-Tetraamidobiphenyl (J. pr. [2] 66, 561 C. 1903 [1] 518). $C_{12}H_{14}N_4$ 14) 3[5]-[α-Phenylhydrazonäthyl]-4-Methylpyrazol. Sm. 135-136° (B. 36, 1132 C. 1903 [1] 1139). 1) $\beta \gamma \gamma \delta$ -Tetrabrom- δ -Phenyl- β -Methylpentan. Fl. (B. 37, 2306 C. 1904 [2] 215). $C_{12}H_{14}Br_4$ *20) 3,3-Dimethyl-2-Aethylpseudoindol. Sm. $52-53^{\circ}$ (G. 32 |2| 422 $C_{12}H_{15}N$ C. 1903 [1] 838). *25) 2,5-Dimethyl-1-Aethylindol. Sm. 47° (D.R.P. 137117 C. 1903 [1] 109). 4) 3-Imido-1, 4, 5-Trimethyl-2-Phenyl-2, 3-Dihydropyrazol. Carbonat, $\mathbf{C_{12}H_{15}N_{8}}$ Chromat, Pikrat (B. 36, 3287 C. 1903 [2] 1190). 5) 3-Methylimido-1,5-Dimethyl-2-Phenyl-2,3-Dihydropyrazol. Pikrat (B. 36, 3286 C. 1903 [2] 1190). *2) 2,4,6-Tribrom-1,3,5-Triäthýlbenzol. Sm. 103,5—104° (J. pr. [2] 68, $\mathbf{C}_{12}\mathbf{H}_{15}\mathbf{Br}_{8}$ 212 C. 1903 [2] 1114). 3) 3, 5, 6-Tribrom-1, 2, 4-Triäthylbenzol. Sm. 88-90° (B. 36, 1634 C. 1903 [2] 25). C,2H,6O *1) δ-Oxy-δ-Phenyl-α-Hexen (C. 1904 [1] 1343). 31) 1-Oxy-1-Phenylhexahydrobenzol. Sm. 61°; Sd. 153° $_{20}$ u. Zers. (C. r. 138, 1322 C. 1904 [2] 219).
32) Methyläther d. γ-[2-Oxyphenyl]-β-Penten. Sd. 134—136% (Bl. [3] 29, 354 C. 1903 [1] 1222). 33) Methyläther d. γ -[4-Oxyphenyl]- β -Penten. Sd. 129—130°₁₇ (B. 37, 3998 C. 1904 [2] 1641). 34) Aethyläther d. α -[2-Oxyphenyl]- α -Buten. Sd. 126—127 $^{0}_{19}$ (B. 37, 4000 C. 1904 [2] 1641). 35) Aethyläther d. α -[4-Oxyphenyl]- β -Methylpropen. Sd. 128°₁₅ (B. 37, 4001 *C.* **1904** [2] 1641). 36) Isobutyläther d. β -Oxy- α -Phenyläthen. Sd. 248-251° (C. r. 138, 288 C. 1904 [1] 720; Bl. [3] 31, 528 C. 1904 [1] 1552). 37) Methyl-2,5-Diathylphenylketon. Sd. $246-247\frac{0}{789}$ (B. 36, 1633 C. 1903 [2] 25). 38) Aldehyd d. Methyltertiärbutylbenzolcarbonsäure (D.R.P. 94019) - *III, 45. *9) Aethyläther d. Isopropyl-4-Oxyphenylketon. Sm. 41°; Sd. 170 bis C12 H16 O2 1710 (B. 37, 4001 C. 1904 [2] 1641). *20) 3-tert. Butyl-1-Methylbenzol-5-Carbonsäure. Sm. 158—159°. Ba + $1^{1}/_{2}H_{2}O$, Cu + $2H_{2}O$ (C. 1904 [1] 1498). 59) Methyl-4-Oxy-2-Methyl-5-Isopropylphenylketon (C. 1904 [1] 1597).
60) γ -[4-Methylphenyl] valeriansäure. Sd. 176°₁₀ (C. 1904 [1] 1416).
61) α -Phenylbutan- β -Methylcarbonsäure. Sm. 22°; Sd. 134°₁. Ca + 3H₂O (C. 1904 [1] 1259),
*1) Asaron. Pikrat (C. 1904 [2] 954). $C_{12}H_{16}O_{3}$ *56) Aethylester d. α -Oxy- α -Phenylbuttersäure. Sd. 143 $^{0}_{20}$ (C. 1903 [1] 225). 59) Aethylester d. β -Oxy- β -Phenyl- α -Methylpropionsäure. Fl. (J. r. 28, 597). — *II, 935. $C_{12}H_{16}O_4$ *6) 4-Methyläther d. Propyl-2, 4, 6-Trioxy-3-Methylphenylketon (Aspidinol) (A. 329, 286 C. 1904 [1] 796; Ar. 242, 496 C. 1904 [2] 1418). 24) 1-Keto-2,4-Diacetyl-2-Oxymethyl-5-Methyl-1,2,3,4-Tetrahydrobenzol. Sm. 69° (B. 36, 2167 C. 1903 [2] 371). 25) 3,6-Dioxy-2,5-Diisopropyl-1,4-Benzochinon. Sin. 154°. Na₂ + 2C₂H₆O (B. 37, 2389 C. 1904 [2] 308). 26) α-Oxy-α-[4-Methoxylphenyl]-β-Methylpropan-β-Carbonsäure. Sm. 110°. Na + 4H₂O, K + H₂O, Ba + 4H₂O (C. 1903 [2] 566).
27) Säure (aus d. Cyanhydrin C₁₂H₁₆ON₂) (C. 1904 [1] 1083).
28) Methylester d. ββ-Dioxy-β-Phenylpropiondimethyläthersäure. Sd. 146-147°₁₈ (C. r. 137, 260 C. 1903 [2] (C.; bi. 3, 31, 400 C. 1904 [1] 1600).

29) Dimethylester d. 2-Methyl-R-Penten-5-Carbonsäure-4-[Aethyl- β -

Carbonsäure]. Sd. 290° (B. 36, 949 C. 1903 [1] 1021).

[1] 1602).

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C10H1004
                     30) Monoäthylester d. 2-Methyl-R-Penten-5-Carbonsaure-4-[Aethyl-

    β-Carbonsäure]- Sm. 103—104°. Ag (B. 36, 948 C. 1903 [1] 1021).
    3,4-Methylenäther-2,5-Dimethyläther d. 2,3,4,5-Tetraoxy-1-[α-oder-β-Oxypropyl]benzol. Sm. 120° (B. 36, 3584 C. 1903 [2] 1364).
    Oxyessig-2, 3-Diäthoxylphenyläthersäure (Pyrogallolglykoldiäthyl-

C10H100
                           äthersäure). Sm. 82-83° (D.R.P. 155568).
                    20) 2.4.6-Trioxy-1.3-Dimethylbenzoltrimethyläther-1-Carbonsäure.

    Sm. 125—126° (M. 24, 107 C. 1903 [1] 966).
    Methylester d. 2, 4, 6-Trioxy-1, 3-Dimethylbenzol-2, 4-Dimethyläther-5-Carbonsäure. Sm. 50—51° (M. 24, 113 C. 1903 [1] 967).

                    22) Aethylester d. 2,4,6-Trioxybenzoltrimethyläther-1-Carbonsäure.
                          Sm. 77-78° (M. 24, 874 C. 1904 [1] 368).
C10 H10 O
                    10) Dimethylester d. Diketocamphersäure. Sm. 85-88°. Cu (B. 36.
                    4333 C. 1904 [1] 456).

*2) Pikroerythrin (Bl. [3] 31, 613 C. 1904 [2] 99).

17) Säure (aus Cholesterin). Ca<sub>2</sub> + 8H<sub>2</sub>O, Cu<sub>2</sub> + H<sub>2</sub>O (M. 24, 181 C. 1903 [2] 20).
C19 H16 O7
C12 H16 O8
C12 H18 N2
                    11) Nitril d. α-Diäthylamidophenylessigsäure. Sd. 142% (B. 36, 4192
                          C. 1904 [1] 263).
C 66,7 — H 7,4 — N 25,9 — M. G. 216.
\mathbf{C}_{12}\mathbf{H}_{18}\mathbf{N}_4
                      1) 2,3-Di[Aethylamido]-1,4-Benzdiazin. Sm. 156° (B. 36, 4050 C. 1904
                          [1] 184).
\mathbf{C}_{12}\mathbf{H}_{16}\mathbf{Br}_{2}
                    *5) 4,6-Dibrom-2-Propyl-1,3,5-Trimethylbenzol. Sm. 56-57 (B. 37,
                      1719 C. 1904 [i] 1489).
6) \beta \gamma-Dibrom-\delta-Phenyl-\beta-Methylpentan. Fl. (B. 37, 2307 C. 1904 [2] 216).
7) d-\alpha \beta-Dibrom-\alpha-Phenyl-\gamma-Methylpentan. Sm. 91—92° (B. 37, 654
                           C. 1904 [1] 937).
                      8) \alpha\beta-Dibrom-\alpha-Phenyl-\beta-Aethylbutan. Fl. (B. 37, 1724 C. 1904 [1])
                          1515).
                      9) 4-[\alpha\beta-Dibromisoamyl]-1-Methylbenzol. Sm. 85° (B. 37, 1089 C. 1904 [1] 1260).
C12H16J2
                      1) 4-[\alpha\beta-Dijodisoamyl]-1-Methylbenzol. Sm. 106—107° (B. 37, 1090)
                           C. 1904 [1] 1260).
                    *9) 1-Benzylhexahydropyridin. Sd. 245°. HCl; (2HCl, PtCl<sub>4</sub>) (B. 37, 2920 C. 1904 [2] 1237; B. 37, 3232 C. 1904 [2] 1152). 37) Aethylallyl-4-Methylphenylamin. Sd. 238°. Pikrat (B. 37, 2717)
C12H17N
                           C. 1904 [2] 591).
                    38) Phenylamidohéxahydrobenzol. Sd. 275° u. Zers. HCl (C. r. 138,
                          459 C. 1904 [1] 884).

39) i-3-Benzylhexahydropyridin. Sd. 278—279°. (2 HCl, PtCl<sub>1</sub>) (B. 36, 2713 C. 1903 [2] 838).
40) Nitril d. Cyklocitrylidenessigsäure. Sd. 141°<sub>17</sub> (D.R.P. 153575

                          C. 1904 [2] 678).
C12H17Cl
                      5) γ-Chlor-γ-Benzylpentan. Fl. (B. 37, 1724 C. 1904 [1] 1515).
                  6) γ-Chlor-γ-Phenyl-β-Methylpentan. Fl. (B. 37, 1725 C. 1904 [1] 1515).
*19) Xyliton (L. Blaor, Dissert, Heidelberg 1900).
*22) α-Οχy-α-[2,4,6-Trimethylphenyl]propan. Sd. 142°<sub>14</sub> (B. 37, 927
C12H18O
                          C. 1904 [1] 1209).
                    25) \gamma-Oxy-\gamma-Benzylpentan. Sd. 243—245°_{755} (B. 37, 1724 C. 1904 [1] 1515). 26) \gamma-Oxy-\gamma-Phenyl-\beta-Methylpentan. Sd. 224—226° u. Zers. (B. 37, 1724
                           C. 1904 [1] 1515).
                    27) \delta-Oxy-\delta-Phenyl-\beta-Methylpentan. Sd. 110—112^{0}_{12} (B. 37, 2307 C. 1904)
                          [2] 216).
                    28) \gamma-Oxy-\alpha-Phenyl-\gamma-Methylpentan. Sd. 129—130^{\circ}_{13} (B. 37, 2317 C. 1904)
                           [2] 217).
                    29) \beta-Oxy-\alpha-Phenyl-\beta-Aethylbutan. Sd. 245° (C. 1904 [1] 1496). 30) Aethyläther d. \alpha-[2-Oxyphenyl]butan. Sd. 124—125°<sub>19</sub> (B. 37, 4000
                           C. 1904 [2] 1641).
                    31) 4-Keto-6-Isobutenyl-2,2-Dimethyl-1,2,3,4-Tetrahydrobenzol. Sd.
                    132—134°<sub>12</sub> (L. Blach, Dissert, Heidelberg 1900).
32) Isoxyliton. Sd. 129—130°<sub>11</sub> (L. Blach, Dissert, Heidelberg 1900).
33) Aethylidencampher. Sd. 110—115°<sub>10</sub> (C. r. 138, 578 C. 1904 [1] 948).
29) 2-Methyläther d. γ-Οxy-γ-[2-Oxyphenyl]pentan. Sd. 142°<sub>18</sub> (Bl. [3] 29, 352 C. 1903 [1] 1222).
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 $C_{12}H_{18}O_{2}$

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C_{12}H_{18}O_{2}
                     30) Diäthyläther d. \beta\beta-Dioxy-\alpha-Phenyläthan. Sd. 245—246° (B. 37, 188)
                           C. 1904 [1] 638).
                     31) \alpha-Phenyläther d. \alpha\beta-Dioxy-\beta-Aethylbutan. Sd. 140—142^{\circ}_{12} (C. r. 138,
                           91 C. 1904 [1] 505)

    32) Acetylcampher (Oxyäthylidencampher). Sd. 127°1. Cu (B. 36, 2628, 2638 C. 1903 [2] 626; B. 36, 4282 C. 1904 [1] 458; B. 37, 755 C. 1904 [1] 1083; B. 37, 763 C. 1904 [1] 1085; B. 37, 2181 C. 1904

                          [2] 224).
                     33) Cyklocitrylidenessigsäure (D.R.P. 153 575 C. 1904 [2] 677).
                     34) Acetat d. Alkohol C<sub>10</sub>H<sub>16</sub>O (aus Gingergrasöl). Sd. 90-91% (C. 1904)
                          [1] 1264).
                   *16) Methylester d. Camphocarbonsäure. Sd. 162°<sub>18</sub>. Na, Fe (B. 36, 672 C. 1903 [1] 772; B. 36, 1310 C. 1903 [1] 1225; C. r. 136, 240 C. 1903, [1] 584; B. 37, 2515 C. 1904 [2] 332; B. 37, 3947 C. 1904 [2] 1569).
  C_{12}H_{18}O_3
                     27) 2-Methyläther d. \beta\gamma-Dioxy-\gamma-[2-Oxyphenyl]pentan. Fl. (Bl. [3] 29,
                          355 C. 1903 [1] 1222).
                     28) Trimethyläther d. 2,3,5-Trioxy-1-Propylbenzol. Sd. 144-146°<sub>12</sub> (B. 36, 1718 C. 1903 [2] 114).
                    29) 3-Propyläther d. 2,3,5-Trioxy-1-Propylbenzol. Sm. 1020 (B. 36,
                          1721 C. 1903 [2] 114).
                    30) Aethylester d. 4-Keto-2,2,6-Trimethyl-1,2,3,4-Tetrahydrobenzol-
                    1-Carbonsäure. Sd. 146—148% (D.R.P. 148080 C. 1904 [1] 328).
31) Aethylester d. 4-Keto-1-Methyl-3-Allyl-R-Pentamethylen-3-Car-
                    bonsäure. Sd. 139—141°<sub>18</sub> (C. r. 136, 1614 C. 1903 [2] 440).
32) Aethylester d. 3-Keto-1-Methyl-2-Allyl-R-Pentamethylen-2-Car-
                    bonsäure. Sd. 139-141% (C. r. 138, 210 C. 1904 [1] 663).
33) Acetat d. 5-Oxy-7-Keto-1-Methylbicyklo-[1,3,3]-Nonan. Sd. 172
                          bis 176° 16 (B. 37, 1673 C. 1904 [1] 1607).
 C_{12}H_{18}O_4
                    19) ασγγ-Tetraacetyl-β-Methylpropan (Aethylidenbisacetylaceton). Sm. 108°
                         (B. 36, 2150 C. 1903 [2] 369).

20) γε-Lakton d. ε-Oxy-βε-Dimethyl-β-Hexadiën-γδ-Dicarbonsäure-δ-Aethylester. Sn. 75°; Sd. 165°, (J. pr. [2] 67, 197 C. 1903 [1] 869).
21) Monoäthylester d. βε-Dimethyl-βδ-Hexen-γδ-Dicarbonsäure. Sm. 49°

                          (J. pr. [2] 67, 198 C. 1903 [1] 869).
 C19H18O5
                     7) \beta\beta\delta\delta-Tetraacetyl-\alpha-Oxybutan. Sm. 91° (B. 36, 2165 C. 1903 [2] 371).
 C12H18O8
                    *3) Diäthylester d. \betas-Dioxy-\beta\delta-Hexadiën-\gamma\delta-Dicarbonsäure (B. 37,
                         3490 C. 1904 [2] 1288).
                  *10) Triäthylester d. Aconitsäure (B. 36, 279 C. 1903 [1] 440).
                    18) Dimethylester d. Anemonolsäure. Sm. 93-940 (M. 20, 641). -
                          *III, 456.
                    19) isom. Triäthylester d. Isoakonitsäure.
                                                                                             Sd. 173—176° (U. 1903
                          [1] 628).
                    20) Triäthylester d. Propen-ααγ-Tricarbonsäure.
                                                                                                           Sd. 173—176° 16
                         (Soc. 85, 864 C 1904 [\bar{2}] 512).

    7) Diäthylester d. β-Oxy-γ-Keto-β-Acetylbutan-αα-Dicarbonsäure. Sm. 53° (B. 36, 3228 C. 1903 [2] 941).
    *2) Glykosetriacetat (Am. 28, 370 C. 1903 [1] 76).

 C12H18O7
 C,2H18O9
                   20) Methylisobutylbenzylamin. Sd. 115-118° (Soc. 83, 1412 C. 1904)
 C_{12}H_{19}N
                        [1] 438).
                   *3) Myroxocerin. Sm. 120 - 130° (C. 1904 [2] 1047).
C12 H20 O
                    8) 4-[\beta-Ketobutyl]-1,1,3-Trimethyl-2,3-Dihydro-R-Penten (Aethyl-campholenon). Sd. 222—225° (Bl. [3] 31, 465 C. 1904 [1] 1516). 9) Verbindung (aus d. Glykol C_{12}H_{22}O_2). Sd. 115—117° 30 (M. 24, 165
                         C. 1903 [1] 957).
                  10) Verbindung (aus Leberpigment). Sd. 208-212° (C. 1904 [2] 665).
                  11) Verbindung (aus αγ-Dioxybutan). Sd. 200° (M. 25, 10 °C. 1904
                        [1] 716).
                *12) Acetat d. Isoborneol. Sd. 106°<sub>14</sub> (C. r. 136, 239 C. 1903 [1] 584).
*20) Acetat d. 1-Linalool (J. pr. [2] 66, 495 C. 1903 [1] 516).
42) \( \alpha \text{-Oxy\text{athyleampher.}} \) Sd. 223\( -226°_{753,8} \) (B. 36, 2628 C. 1903 [2] 625).
43) \( \alpha \text{-Undekin-}\alpha \text{-Carbons\text{aure.}} \) Sm. 30° (C. r. 136, 554 C. 1903 [1] 825).
C_{12}H_{20}O_2
                  44) \beta\zeta-Dimethyl-\alpha\beta-Nonadiën-\iota-Carbonsäure (Citronellidenessigsäure). Sd. 175,5–177,5^{\circ}_{14}. Ni (B. 36, 2797 C. 1903 [2] 877).
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45) Aethylester d. α-Nonin-α-Carbonsäure. Sd. 143-146° 21 (C. r. 136, $C_{12}H_{20}O_{2}$ 554 *C.* **1903** [1] 825). 46) Aethylester d. 1,1,3-Trimethyl-1,2,3,4-Tetrahydrobenzol-2-Carbonsaure? Sd. 95-98° (D.R.P. 148206 C. 1904 [1] 486). 47) Isopropylester d. α -Oktin- α -Carbonsäure. Sd. 145–148% (C. r. 136, 554 C. 1903 [1] 825). 48) Acetat d. Campholenalkohol. Sd. 228—229° (C. r. 138, 280 C. 1904 [1] 725). 49) Acetat d. Cyklogeraniol. Sd. 130—132° so (D.R.P. 138141 C. 1903 [1] 267). 50) Acetat d. Nerol. Sd. 134°₂₅ (B. 36, 267 C. 1903 [1] 585). — *III, 14) Aethylester d. δ-Oxy-αζ-Heptadiën-δ-[Aethyl-β-Carbonsäure] (A. d. γ-Oxy-γγ-Diallylbuttersäure). Sd. 244-250° (C. 1904 [1] 1330).
15) Aethylester d. 5-Keto-1,1,3-Trimethylhexahydrobenzol-2-Carbon-C12H20O3 bonsäure. Sd. $136-137^{\circ}_{17}$ (C. r. 136, 1614 C. 1903 [2] 440). 18) Verbindung (aus d. Verb. $C_{12}H_{22}O_4$ aus Guttapercha). Fl. ([1] 83). C12 H20 O4 41) α-Methylhomocamphersäure. Sm. 178—180° (C. r. 118, 690; C. r. **137**, 1068 *C*. **1904** [1] 283). 42) β-Methylhomocamphersäure. Sm. 143°. Na₂ (C. r. 137, 1068 C. 1904 43) Aethylester d. $\varepsilon\eta$ -Diketo- β -Methyloktan- ζ -Carbonsäure. Sd. 133 bis 134°₁₈ (Bl. [3] 31, 598 C. 1904 [2] 26). 44) Diäthylester d. δ-Methyl-β-Penten-βδ-Dicarbonsäure. Sd. 139° (C. r. 136, 1140 C. 1903 [1] 1405; Bl. [3] 29, 1025 C. 1903 [2] 1315).
45) Monomenthylester d. Oxalsäure. Fl. (C. 1903 [1] 162; B. 37, 1378 C. 1904 [1] 1441). 14) Diäthylester d. γ -Keto- β -Methylpentan- $\beta\delta$ -Dicarbonsäure. Sd. 195 $C_{12}H_{20}O_5$ bis 197°₁₀₀ (Soc. 83, 775 C. 1903 [2] 190, 422). 24) Trimethylester d. Säure C₉H₁₄O₆. Sd. 194°₂₀ (Bl. [3] 29, 1046 C. 1903 $C_{12}H_{20}O_6$ [2] 1425). 25) Verbindung (aus Aethyloxalylchlorid). Sd. 143-144° (C. r. 136, 1201 C. 1903 [2] 22). 9) θ -Oxy- θ ?-Dimethyl- θ ?-Dekadiër (\ \frac{1}{2}\) \ \text{1-0-1} \ \text{153 120 } \ \ \text{C. 1904 [2] 624; D.R.P. \ \ \text{153 120} \); Sd. 120 θ ₁₄ (D.R.P. \ \ \text{153 120} \); Sd. 148 θ ₂₀ (θ . r. 138, 1322 $C_{12}H_{22}O$ C. 1904 [2] 219). 11) 4-[\$\textit{\alpha}\$-\text{[a]} \(\alpha \) 130. \(\alpha \) 130. \(\alpha \) 131. \(\alpha \) 150. \(\alpha \) 131. \(\alpha \) $C_{12}H_{22}O_2$ 30) Diathyläther d. $\alpha \alpha$ -Dioxy- β -Oktin. Sd. 110 $^{0}_{11}$ (C. r. 138, 1340 C. 1904) [2] 187). 31) s-[\beta-Oxyisobutyl]-1,1,2-Trimethyl-R-Pentamethylen-2,3-Oxyd. Sm. 142\(^0\) (Bl. [3] 31, 466 \(^0\) C. 1904 [1] 1516).
32) Säure (aus Hefefett). Pb (H. 38, 8 \(^0\) C. 1903 [1] 1428). 33) Aethylester d. i-Citronellalsäure. Sd. 115% (C. r. 138, 1701 C. 1904) [2] 440). 30) Aethylester d. β -Oxy- α -Heptenäthyläther- α -Carbonsäure. Sd. 253 C12 H22 O3 bis 253,5° (C. r. 138, 208 C. 1904 [1] 659; Bl. [3] 31, 512 C. 1904 [1] 1602). 31) Aethylester d. 5-Oxy-1,1,3-Trimethylhexahydrobenzol-2-Carbonsäure. Sd. 150—154°₁₇ (D.R.P. 148207 C. 1904 [1] 487).
32) Aethylester d. α-Keto-β-Methyloktan-α-Carbonsäure.

 bis 124°₁₂ (Bl. [3] 31, 1153 C. 1904 [2] 1707).
 33) Aethylester d. β-Keto-δ-Methyloktan-γ-Carbonsäure.
 bis 245°₇₈₀ (Soc. 81, 1594 C. 1903 [1] 15, 132). 16*

Sd. 123

*16) Diäthylester d. $\beta\gamma$ -Dimethylbutan- $\beta\gamma$ -Dicarbonsäure (Bl. [3] 31, 116 C. 1904 [1] 643).

38) Dimethylester d. β -Methylheptan- $\gamma\zeta$ -Dicarbonsäure. Sd. 251° u. Zers. (C. r. 136, 458 C. 1903 [1] 696; C 1904 [2] 1045).

 $C_{12}H_{22}O_4$

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    39) Diäthylester d. β-Aethylbutan-αα-Dicarbonsäure.
    (Bl. [3] 31, 350 C. 1904 [1] 1134).

                    40) Diacetat d. αθ-Dioxyoktan. Sd. 163-1680 (M. 24, 404 C. 1903
                          [2] 620).
                    41) Diacetat d. \alpha\delta-Dioxy-\beta\beta\delta-Trimethylpentan. Sd. 214—216° (M. 24,
                    602 C. 1903 [2] 1235).
42) Diacetat d. \gamma \delta-Dia
                         Diacetat d. \gamma\delta-Dioxy-\beta\beta\delta-Trimethylpentan. (C. 1904 [2] 1025).
                                                                                                         Sd. 122--1230<sub>18</sub>

43) Verbindung (aus Guttapercha). Fl. (C. 1903 [1] 83).
*5) Diäthylester d. β-Oxy-βη-Dimethylbutan-αη-Dicarbonsäure (Bl. [3] 29, 1025 C. 1903 [2] 1315).

 \mathbf{C_{12}H_{22}O_{5}}
                    14) Anhydrid d. \beta-Oxy-\alpha-Aethylbuttersäure. Fl. (A. 334, 114 C. 1904)
                         [2] 888).
                    15) Aethylester d. Oxypivalyloxypivalinsäure. Sd. 154°<sub>27</sub> (Bl. [3] 31,
                         129 C. 1904 [1] 644).
                    16) Diäthyläther d. \gamma-Oxybutanäthyläther-\alpha\beta-Dicarbonsäure. Sd. 253
                         bis 255° (A. 330, 309 C. 1904 [1] 927).
                    17) Diäthylester d. Homopilomalsäure. Sd. 293 755 (B. 33, 2361). —
                         *III, 687.

2) Diäthylester d. β-Aethoxylmethoxylmethoxyläthan-uu-Dicarbonsäure. Fl. (C. 1904 [2] 641).
*6) Isomaltose (C. 1904 [2] 1712).

 C_{12}H_{22}O_7
 \mathbf{C_{12}H_{22}O_{11}}
                  *10) Melibiose + 2H<sub>2</sub>O. K, Na (C. 1903 [2] 1243; 1904 [1] 1645).
*12) Milchzucker (Ph. Ch. 44, 487 C. 1903 [2] 557).
*15) Rohrzucker (C. r. 137, 1259 C. 1904 [1] 436; C. r. 138, 638 C. 1904
                         [1] 1068).
                  *24) Gentiobiose (C. 1903 [1] 229).
                   29) Anhydrischer Milchzucker (C. 1904 [2] 1202).
 \mathbf{C}_{12}\mathbf{H}_{22}\mathbf{O}_{12}
                    6) Zellobionsäure. Fl. (Bl. [3] 31, 857 C. 1904 [2] 645).
                   *1) Nitril d. Laurinsäure. Sm. 4°; Sd. 198°<sub>100</sub> (Bl. [3] 29, 1209 C. 1904
 C_{12}H_{23}N
                   *4) Dimethylbornylamin. Sd. 210-213°, (2HCl, PtCl4) (Soc. 85, 1195
                         C. 1904 [2] 1125).
                     6) Di[Hexahydrophenyl]amin. Sm. 20°; Sd. 145° 40 (250° u. Zers.). HCl
                         (C. r. 138, 458 C. 1904 [1] 884).
                    7) Base (aus a-Camphylamin). Sd. 215° (C. r. 136, 1463 C. 1903 [2] 287). 8) Nitril d. \beta\zeta-Dimethylnonan-\epsilon-Carbonsäure. Sd. 129—131° (Rl. [3] 31, 307 C. 1904 [1] 1133).
C_{12}H_{24}O
                    8) Aldehyd d. \beta\theta-Dimethylnonan-s-Carbonsäure. Sd. 103-105".
                 (C. r. 138, 91 C. 1904 [1] 505; Bl. [3] 31, 306 C. 1904 [1] 1133).  
*1) Laurinsäure. Sm. 44° (Bl. [3] 29, 1121 C. 1904 [1] 259).  
*20) \beta \theta-Dimethylnonan-s-Carbonsäure. Sm. 46-47^{\circ} (Bl. [3] 31, 307
C_{12}H_{24}O_{2}
                         O. 1904 [1] 1133).
                  26) 2-Oxy-3-[\beta-Oxyisobutyl]-1,1,2-Trimethyl-R-Pentamethylen (Di-
                  methylcampholandiol). Sm. 94° (Bl. [3] 31, 466 C. 1904 [1] 1516).
27) Säure (aus Suberites domuncule). Sm. 110° (II. 41, 121 C. 1904 [1] 197).
                   28) Acetat d. s-Oxy-β-Methyl-s-Aethylheptan. Sd. 93-94", (C. r. 138,
                        154 C. 1904 [1] 577).
                  *6) \alpha-Isobutyrat d. \alpha \gamma-Dioxy-\beta \beta \delta-Trimethylpentan (M. 25, 191 (/. 1904 [1] 1000; M. 25, 251 C. 1904 [1] 1330).
C12H24O8
                  14) \alpha-Oxyundekan-\alpha-Carbonsäure. Sm. 73—74°. Na, K, Cu (Bl. [3] 29,
                        1124 C. 1904 [1] 261).
                    8) Nitril d. \alpha-Diäthylamidoheptan-\alpha-Carbonsäure. Sd. 125-126^{o}_{11}
C_{12}H_{24}N_{2}
                  8) Nitrii a. \alpha-Diamystall (B. 37, 4090 C. 1904 [2] 1725).
1) trim. \beta-Thiobutan. Sd. 238°<sub>175</sub> (C. r. 136, 1460 C. 1903 [2] 282).
4) \alpha-Isoamylimidoheptan. + NaHSO<sub>8</sub> (C. 1904 [2] 945).
*1) \alpha-Oxydodekan. Sm. 22,6° (M. 25, 348 C. 1904 [1] 1400; Bl. [3] 31,
C_{12}H_{24}S_{3}
C12 H25 N
C12H28O
                   8) \alpha-Aethyläther d. \alpha\beta-Dioxy-\beta-Methylnonan. Sd. 130 – 133 ^{\circ}_{18} (C. r. 138,
C_{12}H_{26}O_{2}
                        92 C. 1904 [1] 505).
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- $\mathbf{C}_{12}\mathbf{H}_{26}\mathbf{O}_{2}$ 9) ζ -Aethyläther d. $\varepsilon \zeta$ -Dioxy- ε -Propyl- β -Methylhexan. Sd. 109—113%, (C. r. 138, 92 C. 1904 [1] 505).
 - 10) ε -Aethyläther d. $\delta \varepsilon$ -Dioxy- β -Methyl- δ -Isobutylpentan. bis 113°₂₈ (C. r. 138, 91 C. 1904 [1] 505; Bl. [3] 31, 303 C. 1904 [1]
- *1) Hexabrom-1, 2-Benzochinonbrenzkatechinäther (Am. 31, 98 C. 1904 C₁₂O₄Br₆ [1] 802).

- 12 III -

- 1) Verbindung (aus Tribromresochinon) (M. 1, 350; 4, 223). II, 922. *2) Hexabromdi-o-Oxybrenzkatechinäther. Sm. 304—307° (Am. 30, 523 $C_{12}H_2O_4Br_4$ $C_{12}H_2O_4Br_6$ C. 1904 [1] 366).
- α-Verbindung (aus 3,4,5,6-Tetrabrom-1,2-Benzochinon). Zers. bei 190 bis 200° (B. 36, 455 C. 1903 [1] 574; Am. 31, 109 C. 1904 [1] 802).
 β-Verbindung (aus 3,4,5,6-Tetrabrom-1,2-Benzochinon). Sm. 221—222° (B. 36, 455 C. 1903 [1] 574; Am. 31, 110 C. 1904 [1] 802).
 3-Brom-7,8-Acenaphtenchinon. Sm. 194° (A. 327, 87 C. 1903 [1] 1909. $C_{12}H_2O_5Br_8$
- C₁₂H₅O₂Br
- $C_{12}H_5O_3Br$ 2) Anhydrid d. 4-Bromnaphtalin-1,8-Dicarbonsäure. Sm. 210° (B. 7, 1093; A. 327, 86 C. 1903 [1] 1228; B. 36, 3770 C. 1903 [2] 1445). -II, 1880.
- *1) Anhydrid d. 4-Nitronaphtalin-1,8-Dicarbonsäure. Sm. 220-2220 $C_{12}H_5O_5N$ (B. 36, 3772 C. 1903 [2] 1446).
 - 2) Anhydrid d. 3-Nitronaphtalin-1,8-Dicarbonsäure. Sm. 247° (249°)
- 2) Annydrid d. 3-Nitronaphtain-1, 8-Dicarbonsaure. Sm. 24.° (249°) (B. 32, 3248; A. 327, 84°C. 1903 [1] 1228).
 *1) α-Tetranitrocarbazol. Sm. 285-286° (B. 37, 3597 C. 1904 [2] 1505).
 *2) β-Tetranitrocarbazol. Sm. 273° (B. 37, 3597 C. 1904 [2] 1505).
 *3) γ-Tetranitrocarbazol. Sm. 275° u. Zers. (B. 37, 3597 C. 1904 [2] 1505).
 *4) δ-Tetranitrocarbazol (B. 37, 3597 C. 1904 [2] 1505).
 C 39,6 H 1,4 O 39,7 N 19,3 M. G. 363.
 1) 3.5,7 Ω Hettranitrophologyaring (Franchic 1904 (B. 36, 480 C. 1903)). $C_{12}H_5O_8N_5$
- $C_{12}H_5O_9N_5$
- 1) 3,5,7,9-Tetranitrophenoxazin. Zers. bei 210° (B. 36, 480 C. 1903 [1] 651).
- $C^{-}68,6^{-}-H^{-}2,8^{-}-O^{-}15,2^{-}-N^{-}13,3^{-}-M.G.^{-}210.$ $C_{12}H_6O_2N_2$ 1) Peroxyd d. 7,8-Dioximidoacenaphten? Sm. 140° u. Zers. (G. 33
- [1] 45 *C.* **1903** [1] 881). 3) Imid d. 4-Nitronaphtalin-1,8-Dicarbonsäure. Sm. 2840 (A. 327, 83 $C_{12}H_6O_4N_2$
- C. 1903 [1] 1227). C 50,3 H 2,1 O 28,0 N 19,6 M. G. 286. C12H6O5N4
 - 1) ?-Dinitro-5,10-Naphtdiazin-5,10-Oxyd. Sm. 240° (B. 36, 4143 C. 1904 [1] 186).
 - 2) isom ?-Dinitro-5,10-Naphtdiazin-5,10-Oxyd. Sm. 269° (B. 36, 4143)
- $C_{12}H_6O_7N_4$
- C. 1904 [1] 186).
 C 45,3 H 1,9 O 35,2 N 17,6 M. G. 318.
 1) 3,7,9-Trinitrophenoxazin (B. 36, 482 C. 1903 [1] 652).
 *1) 3,5,3',5'-Tetranitroazoxybenzol. Sm. 183;0 (Am. 29, 116 C. 1903 C12H6O9N6 [1] 709).
- $\mathbf{C_{12}H_6N_2Cl_2}$ 2) 2,3-Dichlor-1,4-Naphtisodiazin. Sm. 142° (B. 36, 4045 C. 1904 [1] 183). *1) 2,4,2',4'-Tetrachlorazobenzol. Sm. 161-162° (A. 330, 53 C. 1904 C₁₂H₆N₂Cl₄
- [1] 1141). 2) 2,4,2',4'-Tetrabromazobenzol. Sm. 179° (A. 330, 54 C. 1904 [1] 1142). $C_{12}H_6N_2Br_4$
- 1) 3,3'-Dichlor-4,4'-Dibrombiphenyl. Sm. 176-177° (Soc. 85, 8°C. 1904) $\mathbf{C_{12}H_6Cl_2Br_2}$ [1] 376, 728).
- 1) 3,3'-Dichlor-4,4'-Dijodbiphenyl. Sm 162°; Sd. 275° 10 (Soc. 85, 8 C₁₂H₆Cl₂J₂
- C. 1904 [1] 376, 728). *2) 2-Naphtisatin (B. 36, 1736 C. 1903 [2] 118). $C_{12}H_7O_2N$
 - 8) 7-Oximido-8-Ketoacenaphten. Sm. 230° (G. 33 [1] 42 C. 1903 [1] 881).
- 4) 3,5,3'-Trichlor-4,4'-Dioxybiphenyl. Sm. 179° (Soc. 85, 11 C. 1904) C₁₂H₇O₂Cl₈ [1] 376, 729).
- *3) Anhydrid d. 3-Amidonaphtalin-1,8-Dicarbonsäure. Sm. noch nicht $C_{12}H_7O_3N$ bei 360° (A. 327, 85 C. 1903 [1] 1228). 6) 2-Oxy-4,9-Diketo-4,9-Dihydro- $\beta\beta$ -Naphtindol (E. Hover, Dissert,
 - Berlin 1901).
 - 7) Anhydrid d. 2-Naphtisatosäure. Sm. 264° (B. 36, 1737 C. 1903 [2] 119).

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3) Benzoylbromisobrenzschleimsäure. Sm. 1230 (C. r. 136, 50 C. 1903
C_{12}H_7O_4Br
                    [1] 443).
                 4) Acetat d. 3-Brom-2-Oxy-1,4-Naphtochinon. Sm. 134° (E. Hoyer,
                    Dissert., Berlin 1901.
                 C 58,8 — H 2,8 — O 32,7 — N 5,7 — M. G. 245.
1) 1,2-Methylenätherester d. 4-Nitro-1-Oxynaphtalin-2-Carbonsäure.
C_{19}H_7O_5N
                    Sm. 167—168° (A. 330, 102 C. 1904 [1] 1076).
                 3) 3,9-Dinitrophenoxazin. Zers. oberh. 2006 (B. 36, 478 C. 1903
\mathbf{C}_{12}\mathbf{H}_7\mathbf{O}_5\mathbf{N}_3
                    [1] 651).
                *3) 4-Nitronaphtalin-1,8-Dicarbonsäure (A. 327, 82 C. 1903 [1] 1227).
\mathbf{C_{12}H_7O_6N}
                *1) Phenyläther d. 2,4,6-Trinitro-1-Oxybenzol. Sm. 1530 (Am. 29, 213
C_{12}H_7O_7N_3
                    C. 1903 [1] 964).
                *1) Di[2,4-Dinitrophenyl]amin. Sm. 1970 (C. 1903 [2] 1109).
C_{19}H_7O_8N_5
\mathbf{C}_{12}\mathbf{H}_7\mathbf{O}_9\mathbf{N}_5
                 4) 2', 4', P, P-Tetranitro-4-Oxydiphenylamin. Sm. 225,5° (B. 37, 1731
                    C. 1904 [1] 1521).
C_{12}H_7ClJ_4
                 1) 3,3',?-Trijoddiphenyljodoniumchlorid.
                                                                        2 + PtCl_4 (B. 37, 1309)
                    C. 1904 [1] 1340).
C_{12}H_7BrJ_4
                 1) 3,3',?-Trijoddiphenyljodoniumbromid.
                                                                         Sm. 109° (B. 37, 1309
                    C. 1904 [1] 1340).
               *4) Diphenylenazonoxyd. Sm. 139° (B. 37, 24 C. 1904 [1] 523).

*7) 5,10-Naphtdiazin-5,10-Oxyd. HCl (B. 36, 4142 C. 1904 [1] 186).

9) 7-Hydrazon-8-Ketoacenaphten. Sm. 240—241° (G. 33 [1] 47
C_{12}H_8ON_2
                    C. 1903 [1] 882).
                 1) 3,3',P-Trijoddiphenyljodoniumhydroxyd. Salze siehe (B. 37, 1308
C<sub>12</sub>H<sub>8</sub>OJ<sub>4</sub>
                    C. 1904 [1] 1340).
\mathbf{C_{12}H_8O_2N_2}
               *2) 7,8-Dioximidoacenaphten. Sm. 222° (G. 33 [1] 44 C. 1903 [1] 881).
              *12) 2,3-Dioxy-1,4-Naphtisodiazin (B. 35, 4305; B. 36, 4044 U. 1904
                    [1] 183).
                17) Oxim d. 2-Naphtisatin. Sm. 186° u. Zers. (B. 36, 1738 C. 1903
                     2] 119).
                18) 3-Cyan-2-Methylchinolin-4-Carbonsäure. Sm. 238° u. Zers. (2HCl,
               PtCl<sub>4</sub>) (J. pr. [2] 67, 504 C. 1903 [2] 251).
*2) 5-Nitro-l-Phenyl-l,2,3-Benztriazol. Sm. 167° (A. 332, 99 C. 1904
C_{12}H_8O_2N_4
                    [1] 1570).
                8) 3,3'-Dichlor-4,4'-Dioxybiphenyl. Sm. 124° (Soc. 83, 691 C. 1903 [2] 39; Soc. 85, 10 C. 1904 [1] 376, 729).
3) Acetat d. 2,4-Dibrom-1-Oxynaphtalin. Sm. 92-93° (A. 333, 368
C_{12}H_8O_2Cl_2
C_{12}H_8O_2Br_2
                    C. 1904 [2] 1117).
               *3) 2,2'-Dinitrobiphenyl. Sm. 124—126° (B. 36, 3747 C. 1904 [1] 38).
\mathbf{C_{12}H_8O_4N_2}
               *5) 4,4'-Dinitrobiphenyl (D.R.P. 147943 C. 1904 [1] 133).
               *5) 4,4'-Dinitroazobenzol. Sm. 216° (A. 330, 28 C. 1904 [1] 1141).
1) 2-Phenylsulfon-1,4-Benzochinon (A. 334, 179 C. 1904 [2] 834).
C_{12}H_8O_4N_4
C_{12}H_8O_4S
                 1) 1,3-Phenylenester d. Benzol-1,3-Di[Thiolsulfonsäure] (J. pr. [2] 68,
C_{12}H_8O_4S_4
                    319 C. 1903 [2] 1170).
                *2) 2,2'-Dinitrophenyläther. Sm. 114° (R. 23, 27 C. 1904 [1] 1137)
C_{12}H_8O_5N_2
               *4) 4,4'-Dinitrodiphenyläther. Sm. 141" (R. 23, 27 C. 1904 [1] 1137).
8) 5-Benzoylpyrazol-3,4-Dicarbonsäure. Sm. 220" u. Zers. (A. 325,
               189 C. 1903 [1] 647).
*2) 3, 3'-Dinitroazoxybenzol. Sm. 144—145° (141—142°) (B. 36, 3807 C. 1904 [1] 17; C. 1904 [2] 1383).
\mathbf{C_{12}H_8O_5N_4}
               *3) 4,4'-Dinitroazoxybenzol. Sm. 191,5° (B. 36, 3810, 3829 C. 1904
                    [1] 17; R. 23, 31 C. 1904 [1] 1137).
                 6) 2,2'-Dinitroazoxybenzol. Sm. 175-175,5° (B. 36, 3805, 3813 C. 1904
                    [1] 17).
C<sub>12</sub>H<sub>8</sub>O<sub>5</sub>Cl<sub>9</sub>
                 3) Aethylester d. 6,8-Dichlor-4-Oxy-1,2-Benzpyron-3-Carbonsäure.
                    Sm. 135°. Na (B. 36, 463 C. 1903 [1] 636).
C_{12}H_8O_6N_2
                 7) Nitroderivat d. Verbindung C_{12}H_9O_4N + H_2O. Sm. 218° (R. 23,
                    154 C. 1904 [2] 194).
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- 3) 5-Chlor-1-Phenyl-1, 2, 3-Benztriazol. Sm. 1420 (A. 332, 95 C. 1904) $C_{12}H_8N_8Cl$ [1] 1571). 4) 2-[4-Chlorphenyl]-2,1,3-Benztriazol. Sm. 167,5—168,5 (B. 36, 3826 C. 1904 [1] 19).
 5) 2-oder-3-Chlor-3-oder-2-Amido-1, 4-Naphtisodiazin. Sm. 222° u. Zers. (B. 36, 4049 C. 1904 [1] 184). $C_{12}H_8N_8Br$ 2) 2-[4-Bromphenyl]-2,1,3-Benztriazol. Sm. 174° (B. 36, 3825 C. 1904 [1] 18). 1) Di[3-Todphenyl]jodoniumchlorid. Sm. 156°. 2 + PtCl₄ (B. 37, 1308 C. 1904 [1] 1340). C, H, ClJ, C₁₂H₈Cl₂J₂ 2) Di[3-Chlorphenyl]jodoniumjodid. Sm. 132° (B. 37, 1316 C. 1904 [1] [1341). *1) Di[4-Chlorphenyl]disulfid. Sm. 70—71° (C. r. 138, 982 C. 1904 [1] $C_{12}H_8Cl_2S_2$ 1413). 2) 2,2'-Dichlordiphenyldisulfid. Sm. 89-90° (C. 1904 [2] 1176). 2) Di[3-Chlorphenyl]jodoniumchlorid. Sm. 175-177°. 2 + HgCl₂, C₁₂H₈Cl₃J 2 + PtCl₄ (B. 37, 1315 C. 1904 [1] 1341). 1) Di[3-Jodphenyl]jodoniumbromid. Zers. bei 163° (B. 37, 1308 C. 1904 C₁₂H₈BrJ₃ [1] 1340).

 1) Di[3-Bromphenyl]jodoniumjodid. Sm. 154° (J. pr. [2] 69, 326 C. 1904 C12H8Br9J *1) Di[4-Bromphenyl]disulfid. Sm. 93° (C. r. 138, 982 C. 1904 [1] 1413). $C_{12}H_8Br_2S_2$ 1) Di 3-Bromphenyl jodoniumbromid. Sm. 1780 (J. pr. [2] 69, 326 C₁₂H₈Br₈J C. 1904 [2] 35). *9) 3-Benzoylpyridin. Sm. 42°; Sd. 319°, 41 (B. 36, 2711 C. 1903 [2] 837). *1) 2-Phenyl-1,1-Dihydro-2,1,3-Benztriazol-1-Oxyd (Azoazoxybenzol). $C_{12}H_9ON$ $C_{12}H_9ON_3$ Sm. 88,5° (B. 32, 3271; B. 36, 3824 C. 1904 [1] 18).
 5) 2-[4-Oxyphenyl]-2,1,3-Benztriazol. Sm. 217—219° (J. pr. [2] 67, 581 C. 1903 [2] 204). 6) 3-Amido-2-Oxy-5,10-Naphtdiazin. HNO₈ (B. 35, 4304 C. 1903 [1] 344). 1) Di[3-Jodphenyl]jodoniumhydroxyd. Salze siehe (B. 37, 1308 C. 1904 $C_{12}H_9OJ_3$ [1] 1340). *1) 3-Nitroacenaphten. Sm. 106° (A. 327, 80 C. 1903 [1] 1227 $C_{12}H_9O_2N$ *3) 3-Nitrobiphenyl. Sm. 61° (58,5°) (B. 36, 4083 C. 1904 [1] 268; B. 37, 882 *C.* **1904** [1] 1143). *16) Inn. Anhydrid d. Oxyessig-1-Amido-2-Naphtyläthersäure (β-Naphtomorpholon). Sm. 215—216° (Soc. 83, 759 C. 1903 [1] 1419 C. 1903 [2] 448). 17) β -[4-Chinolyl]akrylsäure. Sm. 250—255°. (2HCl, PtCl₄ + 1¹/₂H₂O) (B. 37, 1338 C. 1904 [1] 1362).

 *2) 2-Nitroazobenzol. Sm. 70,5—71° (B. 36, 3818 C. 1904 [1] 18).

 *3) 3-Nitroazobenzol. Sm. 81—82° (B. 36, 2531 C. 1903 [2] 491; B. 36, $C_{12}H_9O_2N_8$ 3811 *C.* **1904** [1] 17). *4) 4-Nitroazobenzol. Sm. 134—135° (B. 36, 3811 C. 1904 [1] 17). 8) 3-Chlor-4,4'-Dioxybiphenyl. Sm. 215° (Soc. 85, 10 C. 1904 [1] C12H0O2Cl 376, 729). 26) 5-Acetylamido-1,4-Naphtochinon. Sm. 162° (B. 32, 2879; A. 335, C₁₂H₉O₈N 151 C. 1904 [2] 1136). — *III, 276. *8) 2-Methylchinolin-3,4-Dicarbonsäure. Sm. 238—239° (J. pr. [2] 67, $C_{12}H_0O_4N$ 506 C. 1903 [2] 252). *21) Verbindung + H_2O (aus d. Verb. $C_{12}H_{10}O_3N_2$) (R. 23, 154 C. 1904 [2] 194). 22) 1,2-Methylenäther d. 4-Nitro-1-Oxy-2-Oxymethylnaphtalin. Sm. 149° (A. 330, 102 C. 1904 [1] 1076). 23) 4-Amidonaphtalin-1,8-Dicarbonsaure. Sm. 200° (A. 327, 83 C. 1903 [1] 1227). 24) 2-Phenylpyrrol-4,5-Dicarbonsäure. Sm. 250° (A. 331, 311 C. 1904)
- C. 1903 [2] 52). C₁₂H₉O₄N₃ *1) 2,4-Dinitrodiphenylamin. Sm. 155—156° (*J. pr.* [2] 68, 254 *C.* 1903 [2] 1064).
 - 8) 3,5-Dinitro-4-Amidobiphenyl. Sm. 233° (B. 37, 883 C. 1904 [1] 1143).

25) Nitrií d. 4,5-Dioxy-3-Acetoxyl-1-Aethenylbenzol-4,5-Methylenäther-2-Carbonsäure (Norcotarnonnitrilacetat). Sm. 110° (B. 36, 1533

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9) 6-Nitro-3.3'-Dioxyazobenzol, Sm. 205° (J. pr. |2| 67, 268 C. 1903
C.,H.O.N.
               10) 2-Nitro-2'-Oxyazoxybenzol. Sm. 91-92° (B. 36, 3814 C. 1904 [1] 17).
*5) Aethylester d. 2-Chlor-1,3-Diketo-2,3-Dihydroinden-2-Carbonsäure. Sm. 72-74° (B. 37, 1788 C. 1904 [1] 1484).
*1) Aethylester d. 2-Brom-1,3-Diketo-2,3-Dihydroinden-2-Carbon-
C<sub>10</sub>H<sub>0</sub>O<sub>4</sub>C1
C.,HOOBr
                    säure. Sm. 72-74° (B. 37, 1788 C. 1904 [1] 1484).
               *5) Oxyessig-1-Nitro-2-Naphtyläthersäure. Sm. 188-1890 (Soc. 83, 758
C. HOO.N
                     C. 1903 [1] 1419 C. 1903 [2] 448).
               *2) 2,4-Dinitro-4'-Oxydiphenylamin (D. R.P. 147862 C. 1904 |1| 235).
6) 2,4-Dinitro-4'-Amidodiphenyläther. Sm. 144°. HCl (B. 37, 1518
C12HOO5Na
                     C. 1904 [1] 1596).
                *4) 3, 2', 4'-Trinitro-4-Amidodiphenylamin.
                                                                               Sm. 226° (B. 37, 1727
C_{12}H_0O_6N_5
                     C. 1904 [1] 1520).
                 8) 2, 4, 6-Trinitro-3-Amidodiphenylamin.
                                                                               Sm. 186° (R. 21, 325
                     C. 1903 [1] 79).
C 58,8 — H 3,0 — O 43,4 — N 4,7 — M. G. 295.
C_{12}H_0O_8N
                 1) trans-1-[4-Nitrophenyl]-R-Trimethylen-12, 2, 3-Tricarbonsäure.
                     Sm. 285-290° u. Zers. (B. 36, 3508 C. 1903 [2] 1274).
                *2) 4-Chlorazobenzol. Sm. 88-89 (B. 36, 4090 Anm. C. 1904 [1] 269).
egin{array}{l} \mathbf{C_{12}H_9N_2Cl} \\ \mathbf{C_{12}H_9N_2J} \end{array}
                *1) 4-Jodazobenzol. Sm. 105° (B. 37, 1311 C. 1904 [1] 1341).
                 1) 7-Chlor-2, 3-Diamido-5, 10-Naphtdiazin.
                                                                             Sm. noch nicht bei 360°.
C, H, N, Cl
                     HCl, HNO, (B. 36, 4029 C. 1904 [1] 294).
                 1) 7-Brom-2, 3-Diamido-5, 10-Naphtdiazin, Sm. noch nicht bei 360°
C. H.N.Br
                     (B. 36, 4032 C. 1904 [1] 294).
C, H, ClJ.
                 2) 3-Chlordiphenyljodoniumjodid. Sm. 130° (B. 37, 1317 C. 1904 [1]
                     1341).
                 3) 3-Joddiphenyljodoniumchlorid.
                                                                  Sm. 134°. + HgCl_2, 2 + PtCl_4
                     (B. 37, 1306 C. 1904 [1] 1340).
C_{19}H_9Cl_9J
                 1) 3-Chlordiphenyljodoniumchlorid. Sm. 163°. 2 + HgCl<sub>2</sub>, 2 + PtCl<sub>4</sub>
                     (B. 37, 1316 C. 1904 [1] 1341).
C, H, BrJ,
                 2) 3-Bromdiphenyljodoniumjodid.
                                                                    Sm. 146° (J. pr. [2] 69, 328
                     C. 1904 [2] 35).
                 3) 3-Joddiphenyljodoniumbromid. Sm. 169 (B. 37, 1307 C. 1904 [1]
                     1340).
C12H0Br2J
                 1) 3-Bromdiphenyljodoniumbromid.
                                                                    Sm. 169° (J. pr. [2] 69, 328
                     C. 1904 [2] 35).
C12H10ON,
                *1) Diphenylnitrosamin. Sm. 67,2-67,6° (C. 1903 [1] 326; B. 36, 2477
                     O. 1903 [2] 559).
                *2) 4-Nitrosodiphenylamin. Sm. 145° (B. 36, 4136 C. 1904 [1] 185).
                *4) Azoxybenzol. Sm. 38° (C. 1903 [1] 324; R. 22, 6 C. 1903 [1] 1082;
                     C. 1904 [2] 1383).
                *5) 4-Oxyazobenzol (C. 1903 [1] 325; R. 22, 8 C. 1903 [1] 1082; B. 36, 3010 C. 1903 [2] 1031; C. 1904 [2] 164; C. r. 138, 1278 C. 1904 [2] 97).
              *18) 2-Oxyazobenzol. (2HCl, PtCl<sub>4</sub>) (C. 1903 [1] 325; R. 22, 8 C. 1903 [1] 1082; B. 36, 4105 Anm., 4107 C. 1904 [1] 271; C. 1904 [2] 164).
23) 3-Oxyazobenzol. Sm. 114—116°. HCl, (2HCl, PtCl<sub>4</sub>) (B. 36, 4102
                     C. 1904 [1] 271; C. 1904 [2] 164).
                 2) 3-Joddiphenyljodoniumhydroxyd. Salze siehe (B. 37, 1306 C. 1904
C_{12}H_{10}OJ_2
                     [1] 1340).
\mathbf{C}_{12}\mathbf{H}_{10}\mathbf{OS}
                *3) Diphenylsulfoxyd. Sm. 70° (B. 37, 2154 C. 1904 [2] 186).
                 6) 4-Oxydiphenylsulfid. Fl. (B. 36, 110 C. 1903 [1] 454; D. Ř. P. 147634
                     C. 1904 [1] 131).
C<sub>12</sub>H<sub>10</sub>O<sub>2</sub>N<sub>2</sub> *11) 2,4-Dioxyazobenzol (B. 36, 3010 C. 1903 [2] 1031).

*27) 3,3'-Dioxyazobenzol. Sm. 205° (J. pr. [2] 67, 266 C. 1903 [1] 1221).

30) 3-Nitro-4-Amidobiphenyl. Sm. 167° (B. 37, 882 C. 1904 [1] 1143).

    31) Nitril d. α-Imido-β-Benzoyl-γ-Ketobutan-α-Carbonsäure. Sm. 121°
    (4. 332, 157 C. 1904 [2] 192).

C<sub>12</sub>H<sub>10</sub>O<sub>2</sub>Br<sub>2</sub> 1) Dibrombenznorcarencarbonsäure. Sm. 168° u. Zers. (B. 36, 3506
                     C. 1903 [2] 1274).
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 $C_{12}H_{10}O_8N_2$ *16) 3-Keto-4-Methyl-2-Phenyl-2,3-Dihydro-1,2-Diazin-6-Carbonsäure.

35) 3,3'-Dioxyazoxybenzol. Sm. 182° (J. pr. [2] 68, 476 C. 1904 [1] 443).

Sm. 216° (R. 23, 146 C. 1904 [2] 193).

- C₁₂H₁₀O₂N₂ 36) 5-Acetyl-4-Phenylpyrazol-3-Carbonsäure. Sm. 208° (A. 325, 185 C. 1903 [1] 646).
 - 37) 5-Benzoyl-4-Methylpyrazol-3-Carbonsäure. Sm. 233 ° (A. 325, 188 C. 1903 [1] 647).
 - 38) 5-Nitro-I-Naphtylamid d. Essigsäure. Sm. 220° (D.R.P. 145191 C. 1903 [2] 1098).
- C₁₂H₁₀O₄N₂ 17) 4-Methylphenylamid d. P-Nitrofuran-2-Carbonsäure. (C. r. 137, 521 C. 1903 [2] 1069).
- $C_{12}H_{10}O_4Br_4$ 7) $\alpha\beta\gamma\delta$ -Tetrabrom- α -Phenylbutan- $\delta\delta$ -Dicarbonsäure (A. 336. 223 C. 1904 [2] 1733).
- *2) 2,5-Dioxydiphenylsulfon. Sm. 195° (B. 36, 112 C. 1903 [1] 454). *3) 3,4-Dioxydiphenylsulfon. Sm. 152—153° (B. 36, 112 C. 1903 [1] 454). C,2H,0O,S
- 2) Benzolsulfoperoxyd. Zers. bei 53-54° (B. 36, 2702 C. 1903 [2] 992). $C_{12}H_{10}O_4S_2$ 2) Diphenylsulfid-4,4'-Disulfinsäure. Sm. 107° (R. 22, 360 C. 1904) $C_{12}H_{10}O_4S_8$
- [1] 23). C₁₂H₁₀O₅N₂ 15) Aethýläther d. 4,8-Dinitro-l-Oxynaphtalin. Sm. 115° (A. 335, 155 C. 1904 [2] 1136).
- *1) Diphenylsulfid-4, 4'-Disulfonsäure (R. 22, 356 C. 1904 [1] 22). $C_{12}H_{10}O_6S_8$
- *2) $\alpha \gamma \varepsilon$ -Triketo- α -[3,5-Dinitrophenyl]hexan. Sm. 153° (J. pr. [2] 69, 456 C. 1904 [2] 595). $C_{12}H_{10}O_7N_2$ C 42.1 - H 2.9 - O 46.8 - N 8.2 - M. G. 342.
- $C_{12}H_{10}O_{10}N_2$ 1) Triacetat d. 4.6-Dinitro-1,2.3-Trioxybenzol. Sm. 154° (B. 37, 121 C. 1904 [1] 586).
- C₁₂H₁₀N₂Br₂ 10) 4- $\lceil \alpha \beta$ -Dibrom- β -Phenyläthyl]-1,3-Diazin. Sm. 225—226° u. Zers. (B. 36, 3384 C. 1903 [2] 1193). C₁₂H₁₀N₂Si *1) Silicodiphenyldimid (Soc. 83, 252 C. 1903 [1] 572, 875). C₁₂H₁₀BrTl 1) Thalliumdiphenylbromid. Zers. oberh. 270° (B. 37, 2060 C. 1904)

- 25) 2-Amido-P-Acetylnaphtalin. Sm. 106° (D. R. P. 56971). *III. 142. $C_{12}H_{11}ON$ 26) 2-[α-Oxybenzyl]pyridin (Phenyl-α-Pyridylcarbinol). Sm. 82°. (2 HCl, PtCl₄) (B. 37, 1371 C. 1904 [1] 1358).
 - 27) 4-[α-Oxybenzyl]pyridin. Sm. 126°. (2HCl. PtCl.) (B. 37, 1372)
 - C. 1904 [1] 1358).
 28) Amid d. Benznorcaradiëncarbonsäure. Sm. 217° (B. 36, 3506) C. 1903 [2] 1274).
- *6) 1-Phenyloxyamidodiazobenzol. Sm. 126-127° (B. 35, 3895 C. 1903 C12H11ON3 [1] 28). 12) 4-Oxy-1-Phenylamidodiazobenzol. Sm. 80° (B. 36, 4146 C. 1904)
- [1] 186). 2) Amid d. Methyl-4-Dicyanmethylenamidophenylamidoessigsäure. C, H, ON,
- Sm. 211° (B. 37, 2638 C. 1904 [2] 519). C₁₂H₁₁O₂N *35) Aethylbetain d. Chinolin-4-Carbonsäure. Sm. 204° (M. 24, 201 C. 1903 [2] 48).
 - 64) β-[4-Chinolyl]propionsäure. Sm. 202-303° (B. 37, 1339 C. 1904 11 1362).
 - 65) 2-Methylphenylamid d. Furan-2-Carbonsäure. Sm. 62° (B. 37, 2955 C. 1904 [2] 993).
 - 66) 3-Methylphenylamid d. Furan-2-Carbonsäure. Sm. 87° (B. 37, 2955 C. 1904 [2] 993).
 - 67) 4-Methylphenylamid d. Furan-2-Carbonsäure. Sm. 107,5° (B. 37, 2954 C. 1904 [2] 993).
 - 68) Phenylimid d. α-Buten-αβ-Dicarbonsäure. Sm. 108-109° (B. 37, 2383 C. 1904 [2] 306).
 - 69) Verbindung (aus β-Benzallävulinsäure). Sm. 94° (A. 258, 132). *II, 986.
- $C_{12}H_{11}O_{2}N_{3}$ *1) 4-Nitro-2-Amidodiphenylamin. Sm. 131° (134°) (J. pr. [2] 69, 41
 - C. 1904 [1] 520; A. 332, 99 C. 1904 [1] 1570).

 *16) 4-Nitro-4'-Amidodiphenylamin (D.R.P. 145061 C. 1903 [2] 973).

 24) 3-Nitro-4,4'-Diamidobiphenyl. Sm. 190° (B. 37, 2883 C. 1904) [2] 594).
 - 25) 3,9-Diamidophenoxazoniumhydroxyd. Chlorid + H_2O , 2 Chlorid +PtCl₄, Bichromat (B. 36, 479 C. 1903 [1] 651).
- 3) Dimethylureïdamidoazin (A. 333, 44 C. 1904 [2] 771). $C_{12}H_{11}O_{2}N_{5}$

 $C_{12}H_{11}O_5N_8$

 $C_{12}H_{12}ON_2$

 $C_{12}H_{11}O_3N$ *28) Aethylester d. Benzoyleyanessigsäure. Sm. 37,5° (A. 332, 150) C. 1904 [2] 192).

47) α-Phtalylamido-β-Ketobutan. Sm. 107° (B. 37, 2475 C. 1904 [2] 418).

48) 1-Keto-4-Oxy-3-Propionyl-1, 2-Dihydroisochinolin. Sm. 231—232°

(B. 37, 2485 C. 1904 [2] 420). 49) Methylester d. α - Cyan- β -Oxy- β -Phenylakrylmethyläthersäure. Sm. 127—128° (C. r. 136, 691 C. 1903 [1] 920).

 $C_{12}H_{11}O_3N_3$ *9) 2[oder 4]-Nitro-4[oder 2]-Amido-4'-Oxydiphenylamin. Sm. 204 bis 205° (D.R.P. 144 157 C. 1903 [2] 814).

13) Acetyl-4-Methylphenylhydrazoncyanessigsäure. Sm. 225° (J. pr. [2] 67, 407 C. 1903 [1] 1347).

 Aethylester d. 4-Chlormethylbenzfuran-1-Carbonsäure. Sm. 65 bis 66° (B. 37, 199 C. 1904 [1] 661). $C_{12}H_{11}O_{3}Cl$

4) Bromoxynorcarencarbonsäure. Sm. 170-173° u. Zers. (B. 36, 3507 $C_{12}H_{11}O_8Br$ C. 1903 [2] 1274).

 $C_{12}H_{11}O_3Br_5$ 2) 4-Acetat d. 2, 5, 6-Tribrom - 3, 4-Dioxy-1- $[\alpha\beta$ -Dibrompropyl]benzol-3-Methyläther. Sm. 175 $^{\circ}$ (A. 329, 36 C. 1903 [2] 1437).

22) γ -Keto- β -Acetyl- α -[3-Nitrophenyl]- α -Buten. Sm. 101—102° (Soc. 83, $C_{12}H_{11}O_4N$ 1374 C. 1904 [1] 164, 450).
23) 6-[α-Oxypropionyl]amido-1, 2-Benzpyron. Sm. 159—160° (Soc. 85,

1234 C. 1904 [2] 1124).

24) 6, 7-Dioxy - 2 - Methylchinolin - 6 - Methyläther - 5 - Carbonsäure. Sm. 212°. (HCl, AuCl₃ + H_2O) (B. 36, 2211 C. 1903 [2] 444).

 $C_{12}H_{11}O_4N_3$ *1) 2,4-Diacetyl-3,5-Diketo-1-Phenyltetrahydro-1,2,4-Triazol. Sm. 1620 (Am. 30, 38 O. 1903 [2] 363).

7) Acetat d. 4-[α-Oximido-α-Phenyläthyl]-1, 2, 3, 6-Dioxdiazin. Sm. 150

bis 154° (A. 330, 239 C. 1904 [1] 945).

8) Diacetat d. 3,5 - Dioxy-1-Phenyl-1,2,4-Triazol. (Am. 30, 37 C. 1903 [2] 363). Sm. 113-115°

C₁₉H₁₁O₅N 11) 4-Acetylamidobenzoylbrenztraubensäure. Sm. 221,5° (B. 36, 2698) C. 1903 [2] 952).

12) 4-Aethoxylphtalylamidoessigsäure. Sm. 179° (B. 37, 1974 C. 1904 21 236).

13) Methylester d. 4, 6 oder 4, 7 Dioxy-l-Keto-l, 2-Dihydroisochinolin-6[oder 7]-Methyläther - 3 - Carbonsäure. Sm. 248° (B. 36, 1975 C. 1904 [2] 236).

14) 1-Acetat d. 4, 5, 6-Trioxy-2-Aethenyl-1-Oximidomethylbenzol-4, 5-Methylenäther (Norcotarnonoximacetat). Sm. 130° (B. 36, 1532 C. 1903 [2] 52)

15) 6-Acetat d. 4,5,6-Trioxy-2-Aethenyl-1-Oximidomethylbenzol-4,5-Methylenäther. Sm. 115-116° (B. 36, 1534 C. 1903 [2] 52).

C 52,0 — H 4,0 — O 28,9 — N 15,1 — M. G. 277. 1) Dimethylureidoxyoxazon + H_2O (A. 333, 48 C. 1904 [2] 771). C12 H11 OaN 7) trans-1-[4-Amiphenyl]-R-Trimethylen-12, 2, 3-Tricarbonsäure.

Zers. bei 259° (B. 36, 3508 C. 1903 [2] 1274). 8) 6-Methylester d. 2-Keto-3,4-Dihydro-1,4-Benzoxazin-4-Methylcarbonsäure-6-Carbonsäure. Sm. 227° (A. 325, 334 C. 1903 [1] 771).

4) Triacetat d. 4 - Nitro - 1, 2, 3 - Trioxybenzol. Sm. 85° (B. 37, 117 C12H11O8N C. 1904 [1] 585).

*2) 4-Amidodiphenylsulfid. Sm. 95° (B. 36, 114 C. 1903 [1] 454). $C_{12}H_{11}NS$ *3) 5-Chlor-2,4'-Diamidobiphenyl. Sm. 169° (166-167°) (B. 36, 4089 C. 1904 [1] 269). $C_{12}H_{11}N_2Cl$

8) 4-Chlor-2-Amidodiphenylamin. Sm. 82° (A. 332, 94 C. 1904 [1] 1571).

*7) 4-Amido-4'-Oxydiphenylamin (D.R.P. 139204 C. 1903 [1] 608) 41) 4,4'-Diamido-2-Oxybiphenyl. Sm. 226-227° (B. 36, 4113 C. 1904 17 272).

42) 3-Oxy-s-Diphenylhydrazin. Sm. 126-126,5° (B. 36, 4112 C. 1904) [1] 272).

43) Amid d. 2-Naphtylamidoessigsäure. Sm. 164—165° (Bl. [3] 29, 967 C. 1903 [2] 1118).

 $C_{12}H_{12}OSi$ 1) Diphenylsilicon. Sm. 100-110° (B. 37, 1141 C. 1904 [1] 1257).

- C₁₂H₁₂O₂N₂ *4) 4 Oxy 5 Phenylhydrazonmethyl 2 Methylfuran. Sm. 140—141° (B. 37, 303 C. 1904 [1] 648).
 - *39) Aethylester d. α -Cyan- β -Amido- β -Phenylakrylsäure. (C. r. 136, 691 C. 1903 [1] 920).
 - *51) Aethylester d. 5-Phenylpyrazol-3-Carbonsäure. Sm. 140° (B. 37,
 - 2201 C. 1904 [2] 323). 52) 4,4'-Diamido-2,2'-Dioxybiphenyl (J. pr. [2] 67, 270 C. 1903 [1] 1221).
 - 53) 6-Acetyl-2-Keto-1-Methyl-1, 2-Dihydrochinolin. Sm. 278-2810 (B. **36**, 1174 C. **1903** [1] 1363).
 - 54) Methylester d. α -Cyan- β -Methylamido- β -Phenylakrylsäure. Sm.
- 128,5° (Bl. [3] 31, 342 C. 1904 [1] 1135).
 7) 4-Nitro-2,4'-Diamidodiphenylamin. Sm. 188—189° (B. 37, 1072 C. 1904 [1] 1273). $C_{12}H_{12}O_{2}N_{4}$
 - 8) 3,7,9-Triamidophenoxazoniumhydroxyd. Chlorid, Bichromat (B. 36, 483 *C.* **1903** [1] 652).
- 9) Amid d. Acetyl-4-Methylphenylhydrazoncyanessigsäure.
 oberh. 250° (J. pr. [2] 67, 408 C. 1903 [1] 1347).
 C₁₂H₁₂O₂Br₂ 2) 1-[αβ-Dibrom-β-Phenyläthyl]-R-Trimethylen-2-Carbonsäure.
 203—204° (B. 37, 2105 C. 1904 [2] 104).
 - 3) Methylester d. $\gamma \delta$ -Dibrom- δ -Phenyl- α -Buten- α -Carbonsäure? 126° (A. 336, 222 C. 1904 [2] 1733).
- Methylester d. $\alpha \beta \gamma \delta$ -Tetrabrom- δ -Phenylvaleriansäure. Sm. 150° (A. 336, 222 C. 1904 [2] 1733). $C_{12}H_{12}O_{2}Br_{4}$ 1)
- $C_{12}H_{12}O_2Si$
- 1) Diphenylsilicol. Sm. 138—139° (B. 37, 1141 C. 1904 [1] 1257). 25) Aethylester d. 5-Keto-3-Phenyl-4,5-Dihydropyrazol-l-Carbonsäure. Sm. 134° (P. GUTMANN, Dissert., Heidelberg 1903). $C_{12}H_{12}O_3N_2$
 - 26) 3-Cyanphenylmonamid d. Bernsteinsäuremonomethylester. 88—89° (C. 1904 [2] 103).
- 5) 3- $\lceil \alpha$ -4-Nitrophenylhydrazonäthylj-5-Methylisoxazol. Sm. 235° u. $C_{12}H_{12}O_8N_4$
 - Zers. (G. 34 [1] 49 C. 1904 [1] 1150). 6) 5-[4-Dimethylphenyl]imido-2,4,6-Triketohexahydro-1,3-Diazin (Dimethylureïdindoanilin) (A. 333, 37 C. 1904 [2] 770).
 - 7) 4-Acetýl-5-[α-Phenylhydrazonáthyl]-1,2,3,6-Dioxdiazin.
 bis 162° (C. 1903 [2] 1433).
- 4) P-Dibrom- β -Benzoylbutan- α -Carbonsäure. Sm. 150° (C. 1904 [1] 1258). $\mathbf{C}_{12}\mathbf{H}_{12}\mathbf{O}_{3}\mathbf{Br}_{2}$
 - 5) 4-Acetat d. 2,5-Dibrom-3,4-Dioxy-1-Propenylbenzol-3-Methyläther. Sm. 123 (A. 329, 26 C. 1903 [2] 1436).
- 3) 4-Acetat d. 2,5-Dibrom-3,4-Dioxy-1-[αβ-Dibrompropyl]benzol-3-Methyläther. Sm. 117—118° (Δ. 329, 29 C. 1903 [2] 1436). $C_{12}H_{12}O_3Br_4$
- $C_{12}H_{12}O_4N_2$ 20) $\alpha\beta$ -Di[2-Furanoylamido] $\alpha\beta$ -Di $\alpha\beta$ 6) Diäthylester d. 3,5-Dichlorbenzol-1,2-Dicarbonsäure. Sd. 312 bis $C_{12}H_{12}O_4Cl_2$ 313 °₇₆₀ (Soc. 81, 1537 C. 1903 [1] 140).
- benzol-3-Methyläther. Sm. 156-157° (A. 329, 35 C. 1903 [2] 1437).
- 2) P-Di[Methylsulfon]naphtalin (J. pr. [2] 68, 339 C. 1903 [2] 1172). $C_{12}H_{12}O_4S_2$ 5) Dimethylester d. β -Phenylhydrazon- α -Ketoäthan- $\alpha\beta$ -Dicarbonsäure. Sm. 104—105° (Bl. [3] 31, 80 C. 1904 [1] 580). $C_{12}H_{12}O_5N_2$
- $C_{12}H_{12}O_6N_2$ *7) Dilaktam d. $\beta\gamma$ -Diimidobutan- $\alpha\alpha\delta\delta$ -Tetracarbonsäure- $\alpha\delta$ -Diäthylester. $Na_2 + 2H_2O$, $K_2 + 2H_2O$ (A. 332, 122 C. 1904 [2] 189).
 - 8) αα-Dimethylester d. Phenylhydrazonmethan-αα, 2-Tricarbonsäure.
 - Sm. 186—187° (B. 37, 4172 C. 1904 [2] 1703).
 9) αα-Dimethylester d. Phenylhydrazonmethan-αα, 3-Tricarbonsäure.
 Sm. 157—158° (B. 37, 4174 C. 1904 [2] 1704).
 - 10) $\alpha\alpha$ -Dimethylester d. Phenylhydrazonmethan- $\alpha\alpha$, 4-Tricarbonsäure. Sm. 238° u. Zers. (B. 37, 4175 C. 1904 [2] 1704).
 - 11) Diäthylester d. $\beta\gamma$ -Dicyan- $\alpha\delta$ -Diketobutan- $\alpha\delta$ -Dicarbonsäure. Sm. 121—122° (Am. 30, 160 C. 1903 [2] 711).
 - 12) 1,2-Phenylenester d. Acetylamidoameisensäure. Sm. 175° (B. 36, 3217 C. 1903 [2] 1056).
- 1) α -Phenyl- α -Buten- $\delta\delta$ -Dicarbonsäure- γ -Sulfonsäure. $K_8 + 2H_2O$ C12H12O7S (Am. 31, 246 C. 1904 [1] 1080).

1) Gem. Anhydrid d. Bernsteinsäure u. Borsäure. Sm. 1640 (B. 36, $C_{12}H_{12}O_{12}B_{2}$ 2224 C. 1903 [2] 421). 6) Chlor-2-Methylphenylat d. Pyridin. 2 + PtCl₄ (J. pr. [2] 70, 44 $C_{12}H_{12}NC1$ C. 1904 [2] 1235).
 Chlor-3-Methylphenylat d. Pyridin. + AuCl₃ (J. pr. [2] 70, 46 C. 1904 [2] 1236). 2) Brom-2-Methylphenylat d. Pyridin. + FeCl₃ (J. pr. [2] 70, 44 $C_{12}H_{12}NBr$ C. 1904 [2] 1235). 3) Brom-3-Methylphenylat d. Pyridin. + FeCl_a (J. pr. [2] 70, 46 C. 1904 [2] 1236). 4) Brom-4-Methylphenylat d. Pyridin. + FeCl₃ (J. pr. [2] 70, 47 C. 1904 [2] 1236). 41) 2-Methylphenylhydroxyd d. Pyridin. Salze siehe (J. pr. [2] 70, 44 C12H13ON C. 1904 [2] 1235). 42) 3-Propyl-5-Phenylisoxazol. Sm. 5-10°; Sd. 168-169°₁₈ (C. r. 137, 796 *C.* **1904** [1] 43). 43) 1-Keto-3-Isobutylpseudoisoindol. Sm. 180° (C. r. 138, 988 C. 1904) [1] 1446). 44) 4-Methyl-2-[β-Oxyäthyl] chinolin. Sm. 98°. HCl, (2 HCl, PtCl₄) (B. 37, 1326 C. 1904 [1] 1360). 45) Methyläther d. 6-Oxy-2, 4-Dimethylchinolin $+ 2H_2O$. Sm. 92°. (2HCl, PtCl₄) (B. 37, 1334 C. 1904 [1] 1361). 46) Amid d. 1- $[\beta$ -Phenyläthenyl]-R-Trimethylen-2-Carbonsäure. Sm. 160° (B. 37, 2105 C. 1904 [2] 104). $C_{12}H_{13}ON_{3}$ 6) 1-Acetylamido-2, 4-Diamidonaphtalin. Sm. 189 (D.R.P. 151768 C. 1904 [2] 274).
49) 4-Oxy-l-Keto-3-Isopropyl-1, 2-Dihydroisochinolin. Sm. 198-207 $C_{12}H_{13}O_2N$ (B. 37, 1694 C. 1904 [1] 1525). 50) Methyläther d. 6-Oxy-2-Keto-1-Aethyl-1,2-Dihydrochinolin. I'l. (B. 36, 1175 C. 1903 [1] 1364). 51) Methyläther d. 4-Oxy-l-Keto-3-Aethyl-1,2-Dihydroisochinolin. Sm. 160—160,5° (B. 37, 1692 C. 1904 [1] 1525).
 52) Aethyläther d. 6-Oxy-2-Keto-1-Methyl-1,2-Dihydrochinolin. Sm. 116°. HCl (B. 36, 1174 C. 1903 [1] 1363). *9) Aethylester d. 2-Methylphenylhydrazoncyanessigsäure. Sm. 1346 $C_{12}H_{13}O_2N_8$ (J. pr. [2] 67, 408 C. 1903 [1] 1347). 21) 4,5,4'-Triamido-2,2'-Dioxybiphenyl. 2HCl (J. pr. [2] 67, 272 U. 1903 1] 1221) 4) 3,5,7,9-Tetraamidophenoxazoniumhydroxyd. Chlorid, Bichromat $C_{12}H_{13}O_{2}N_{5}$ (B. 36, 482 C. 1903 [1] 651). C₁₂H₁₈O₈N 22) 1,1-Dimethyläther d. 2-Oximido-1,1-Dioxy-1,2-Dihydronaphtalin. Sm. 126° (B. 36, 4169 C. 1904 [1] 287). 23) Dimethyläther d. 6, 7-Dioxy-1-Keto-2-Methyl-1, 2-Dihydroisochinolin. Sm. 107° (109–110°). HCl + 2H₂O, Pikrat (B. 37, 1933 C. 1904 [2] 129; B. 37, 3401 C. 1904 [2] 1318). 24) 6 [oder 7] -Aethyläther d. 4,6 [oder 4,7] -Dioxy-1-Keto-3-Methyl-1,2-Dihydroisochinolin. Zers. bei 285° (B. 37, 1979 C. 1904 |2| 237). 25) γ - Oximido - α - Phenyl - α - Penten - ε - Carbonsäure. Sm. 148 - 149 A. 258, 132). — *II, 987 26) Aldehyd d. 6,7-Dioxy-2-Methyl-1,2,3,4-Tetrahydrochinolin-6-Methyläther-5-Carbonsäure. HCl, (2HCl, PtCl₄) (B. 36, 2214 C. 1903 27) Phenylimid d. α-Oxybutan-αβ-Dicarbonsäure. Sm. 142-143° (B. 37, 2382 C. 1904 [2] 306). 28) 4 - Methoxylphenylimid d. Propan - $\alpha\beta$ - Dicarbonsäure. Sm. 95°

 $C_{12}H_{18}O_8N_8$ $C_{12}H_{18}O_{3}N_{5}$

9) Methylester d. 5-Oxy-l-Phenyl-1,2,3-Triazoläthyläther-4-Carbon-9) Methylester d. 3-04° (A. 335, 78 C. 1904 [2] 1230).
2) Aethylester d. 1-Ureïdo-5-Phenyl-1,2,3-Triazol-4-Carbonsäure. Sm. 208° (B. 36, 3615 C. 1903 [2] 1380).

(G. 34 [2] 267 C. 1904 [2] 1453).

3) Azid d. à-Benzoylamidoacetylamidopropionsäure. Sm. 101-102° u. Zers. (J. pr. [2] 70, 119 C. 1904 [2] 1037).

 Azid d. α-Benzoylamidopropionylamidoessigsäure. Sm. 84° u. Zers. (J. pr. [2] 70, 155 C. 1904 [2] 1395).

- 1) 4-Acetat d. 5-Brom-3,4-Dioxy-I-Propenylbenzol-3-Methyläther $C_{12}H_{13}O_8Br$ (A. 329, 16 C. 1903 [2] 1435).
- $C_{12}H_{18}O_3Br_3*2$ 4-Acetat d. 5-Brom-3,4-Dioxy-1- $[\alpha\beta$ -Dibrompropyl]benzol-3-Me-
- ' thyläther. Sm. 130—131° (A. 329, 20 C. 1903 [2] 1435). *1) γ -Acetoximido- γ -Phenylbuttersäure. Sm. 99° (M. 24, 82 C. 1903 $C_{12}H_{13}O_4N$ [1] 769).
 - Lakton d. P-Nitro-1-[α-Oxy-α-Aethylpropyl] benzol-2-Carbonsäure (Nitrodiäthylphtalid). Sm. 103-104° (B. 37, 736 C. 1904 [1] 1078).
- 8) α -Acetat d. α -Oxyäthyl-3-Brom-4-Oxyphenylketon-4-Methyläther. $C_{12}H_{13}O_4Br$ Sm. 87° (B. 37, 1548 C. 1904 [1] 1437).
- $C_{12}H_{13}O_4Br_3$ *3) Methylenäther Dimethyläther d. 6-Brom-2, 3, 4, 5-Tetraoxy-1-[$\alpha\beta$ -Dibrompropyl] benzol. Sm. 120° (C. 1903 [1] 970). 6) α -Acetat d. 2,5-Dibrom-3,4-Dioxy-1-[β -Brom- α -Oxypropyl] benzol-
- 3-Methyläther. Sm. 114—115° (A. 329, 28 C. 1903 [2] 1436). $C_{12}H_{13}O_5N$ *13) 4,6,7-Trioxy-2-Methyl-3,4-Dihydrochinolin-6-Methyläther-5-Carbonsäure. Ba + H₂O (HCl, AuCl₃) (B. 36, 2210 C. 1903 [2] 443).
 - 15) Dimethylester d. 4-Acetylamidobenzol-1, 3-Dicarbonsäure. Sm. 126° (B. 36, 1804 C. 1903 [2] 283).
- 2) Methylenäther Dimethyläther d. 6-Brom-2, 3, 4, 5-Tetraoxy-1-Propionylbenzol. Sm. 128-129° (C. 1903 [1] 970). C 48,8 H 4,4 O 32,5 N 14,2 M. G. 295. $\mathbf{C}_{12}\mathbf{H}_{13}\mathbf{O}_5\mathbf{Br}$
- $C_{12}H_{18}O_6N_3$ 1) Aethylester d. 2-Nitro-4-Acetylamidophenyloxaminsäure. Sm. 1740 (B. 36, 417 C. 1903 [1] 631).
 - 2) Aethylester d. 3-Nitro-4-Acetylamidophenyloxaminsäure. Sm. 179° (B. 36, 417 C. 1903 [1] 631).
- *6) Aethylester d. Nitroopiansäure. Sm. 96° (M. 24, 802 C. 1904 [1] 164). $C_{12}H_{13}O_7N$ C₁₂H₁₃O₇Br *1) Diäthylester d. 5-Brom-2,4,6-Trioxybenzol-1,3-Dicarbonsäure.
- Sm. 128° (Soc. 85, 167 C. 1904 [1] 163, 722). $C_{12}H_{14}ON_2$ *24) 3, 3-Dimethyl-2-[α -Oximidoäthyl]pseudoindol. (G. 32 [2] 428 C. 1903 [1] 838). Sm. 175-176°
 - 33) Aethyläther d. β -Cyan- α -Imido- α -Oxy- β -Phenylpropan. Sd. 158 bis 159% (Am. 32, 33 C. 1904 [2] 954).
 34) Nitril d. 2-Isovalerylamidobenzol-1-Carbonsäure. Sm. 105,5—106,5%

 - (C. 1903 [1] 175). 35) Nitril d. 3-Isovalerylamidobenzol-1-Carbonsäure. (C. **1904** [2] 101).
- $\mathbf{C_{_{12}H_{_{14}}O_{_{2}}N_{_{2}}}} \hspace{0.1cm} 37) \hspace{0.1cm} 3, \\ 5\text{-} \textbf{Diketo-2,4,4-Trimethyl-1-Phenyltetrahydropyrazol.}$ Sm. 72°
- (Soc. 83, 1251 C. 1903 [2] 1422). 8) Aethylester d. 1-Phenylamido-5-Methyl-1,2,3-Triazol-4-Carbonsäure. Sm. 162° (A. 325, 157 C. 1903 [1] 644). $C_{19}H_{14}O_{2}N_{4}$
 - 9) Amid d. 5-Keto-3-Propyl-1-Phenyl-4,5-Dihydro-1,2,4-Triazol-4-Carbonsäure. Sm. 133° (B. 36, 1098 C. 1903 [1] 1140).
- $C_{12}H_{14}O_2Br_2$ 6) 3-Methyläther-4-Aethyläther d. α -[2,5-Dibrom-3,4-Dioxyphenyl]propen. Sm. 79,5 (B. 37, 1131 C. 1904 [1] 1261).
 - 7) βγ-Dibrom-α-Phenylpentan-ε-Carbonsäure. Sm. 103-104° u. Zers. (A. 331, 165 C. 1904 [1] 1211).
 - 8) Acetat d. 2,6-Dibrom-3-Oxy-4-Isopropyl-1-Methylbenzol. Sm. 54-55° (A. 333, 355 C. 1904 [2] 1116).
- $C_{12}H_{14}O_2Br_4$ 1) 3-Methyläther-4-Aethyläther d. 2,5-Dibrom-3,4-Dioxy-1- $[\alpha\beta-Dibrompropyl]$ benzol. Sm. 70-71° (B. 37, 1132 C. 1904 [1] 1261).
- C₁₂H₁₄O₃N₂ 19) Methyldi[3,5-Acetylamido] phenylketon. Sm. 210° (J. pr. [2] 69, 473 C. 1904 [2] 596).
 - 20) β -[1-Nitroso-1, 2, 3, 4-Tetrahydro-4-Chinolyl] propionsäure. Sm. 121 bis 122° u. Zers. (B. 37, 1340 C. 1904 [1] 1363).
 - 21) Aethylester d. β -Phenylhydrazon- α -Ketobuttersäure. Sm. $102-103^{\circ}$
 - (C. r. 138, 1222 C. 1904 [2] 27; C. r. 139, 134 C. 1904 [2] 588).
 22) Amid d. α-Cyan-β-[3,4-Dioxyphenyl] propion-3,4-Dimethyläthersäure. Sm. 1736 (C. 1904 [2] 903).
- $C_{12}H_{14}O_9Br_2*9$) 4-Acetat d. 3,4-Dioxy-l-[$\alpha\beta$ -Dibrompropyl]benzol-3-Methyläther. Sm. 125—126° (A. 329, 11° C. 1903 [2] 1434).
- $C_{12}H_{14}O_4N_2$ *15) 5-Nitro-2,4-Dimethylphenylimid d. Essigsäure. Sm. 115° (G. 33 [2]) 284 C. 1904 [1] 265).
 - 20) α-Benzoylamidoacetylamidopropionsäure. Sm. 202°. Ag (J. pr. [2] 70, 114 C. 1904 [2] 1036).

 $C_{12}H_{14}O_4N_2$ 21) α -Benzoylamidopropionylamidoessigsäure. Sm. 166°. Cu, Ag (J. pr. [2] 70, 151 C. 1904 [2] 1395).

22) Dilakton d. Glyazintetrahydrotetramethyldimalonsäure. Sm. 270 bis 275° u. Zers. (Soc. 83, 1262 C. 1903 [2] 1423).

- 23) Dimethylester d. 2-Methylphenylhydrazonmethan-αα-Dicarbonsäure. Sm. 75-76° (B. 37, 4178 C. 1904 [2] 1704).
- 24) Dimethylester d. 3-Methylphenylhydrazonmethan-uu-Dicarbonsäure. Sm. 63° (B. 37, 4178 C. 1904 [2] 1705).
- 25) Dimethylester d. 4-Methylphenylhydrazonmethan-αα-Dicarbonsäure. Sm. 89—90° (B. 37, 4178 C. 1904 [2] 1705).
- 26) Aethylester d. 4-Acetylamidophenyloxaminsäure. Sm. 193 u. Zers. (B. **36**, 414 C. **1903** [1] 630).
- 27) 2-Nitrophenylester d. Hexahydropyridin-l-Carbonsäure. Sm. 77"; Sd. 226—227°₂₁ u. Zers. (Bl. [3] 29, 753 C. 1903 [2] 629).
- 28) 4-Nitrophenylester d. Hexahydropyridin-1-Carbonsäure. 94-95°; Sd. 272° (Bl. [3] 29, 753 C. 1903 [2] 629).
- 29) 2-Methylphenylmonamid d. Oximidomalonsäuremonoäthylester. Sm. 140-141° (Soc. 83, 40 C. 1903 [1] 73, 442).

C 51.8 - H 5.0 - O 23.0 - N 20.1 - M. G. 278. $C_{12}H_{14}O_4N_4$

- 1) Dilaktam d. δε-Diimidooktan-γγζζ-Tetracarbonsäure-γζ-Diamid (A. 332, 128 C. 1904 [2] 189).
- säure. Sm. 247-248° (B. 37, 4174 U. 1904 [2] 1704).
- 4) $\alpha\alpha$ -Di[Methylamid] d. Phenylhydrazonmethan- α , α , 4-Tricarbonsäure. Sm. oberh. 285° (B. 37, 4176 C. 1904 [2] 1704).
- 5) Verbindung (aus Acetylisocyansäure u. Phenylhydrazin). Sm. 1840 (B. 36, 3217 *C.* **1903** [2] 1056).
- $\textbf{C}_{12}\textbf{H}_{14}\textbf{O}_{4}\textbf{Br}_{2} * 3) \text{ α-Acetat d. 5-Brom-3,4-Dioxy-1-} \\ [\beta-\textbf{Brom-α-Oxypropyl}] \\ \textbf{benzol-new} +$ 3-Methyläther. Sm. 85-86° (A. 329, 19 C. 1903 [2] 1435). $C_{12}H_{14}O_4S$
- 2) Cinnamylidenacetonhydrosulfonsäure. K, Ba + 8H₂O (B. 37, 4052 C. 1904 [2] 1649)
- 2) 1,3-Di[Allylsulfon]benzol. Sm. 105° (J. pr. [2] 68, 321 U. 1903 $C_{12}H_{14}O_4S_2$ [2] 1170).
- $C_{12}H_{14}O_5N_2$ 11) ε -Lakton d. Glyazindihydrotetramethyldimalonsäure. u. Zers. Ba (Soc. 83, 1259 C. 1903 [2] 1423).
 - 12) α -Oxy- γ -Keto- α -[6-Nitro-3-Acetylamidophenyl]butan + 2 Π_2 (). Sm. 62° (142° wasserfrei) (M. 24, 9 C. 1903 [1] 775).
 - 13) β -Amido- α -Benzoylamidoacetoxylpropionsäure. Sm. 176°. NII₄, Ag (J. pr. [2] 70, 202 C. 1904 [2] 1459).
 - 14) Dicyanmalonesteracetylacetonlaktam. Sm. 135° (A. 332, 132 C. 1904 [2] 190).
 - 15) Dimethylester d. 2-Methoxylphenylhydrazonmethan-αα-Dicarbonsäure. Sm. 112—113° (B. 37, 4179 C. 1904 [2] 1705).
 - 16) Dimethylester d. 4-Methoxylphenylhydrazonmethan-uu-Dicarbonsäure. Sm. 91° (B. 37, 4179 C. 1904 [2] 1705).
- C₁₂H₁₄O₅Br₂ 1) Methylenäther Dimethyläther d. 6 Brom 2, 3, 4, 5 Tetraoxy-1-[β -Brom - α -Oxypropyl] benzol. Sm. 85—86° (C. 1903 [1] 970).
- $C_{12}H_{14}O_6S$ 2) β -[4-Methylphenyl]sulfonpropan- $\alpha\beta$ -Dicarbonsäure. Sm. 169-171" u. Zers. (Am. 31, 176 C. 1904 [1] 876). $C_{12}H_{14}O_6S_2$
- 2) 1,3-Di[Acetonylsulfon]benzol. Sm. 150—151° (J. pr. [2] 68, 324 C. 1903 [2] 1171). $C_{12}H_{14}O_7N_2$
- 5) Gemischtes Anhydrid d. Essigsäure u. ?-Dinitro-1-Isopropyl-?-Dihydrobenzol-4-Carbonsäure. Sm. 72° (M. 25, 471 C. 1904 |2| 333). 2) Säure (aus d. Verb. $C_{16}H_{19}O_8N_8$). Sm. 158—160° (Bl. [3] 31, 530 $C_{12}H_{14}O_8N_2$ C. 1904 [1] 1555).
- 2) Amylester d. 2,4,6-Trinitrophenylamidoameisensäure. Sm. 131 ° (Soc. 85, 653 C. 1904 [2] 311). $C_{12}H_{14}O_8N_4$
- l) 1,3-Phenylendi[α -Sulfonpropionsäure]. C12H14O8S2 Ba (J. pr. [2] 68, 328 C. 1903 [2] 1171).
 - 2) Dimethylester d. 1,3-Phenylendi[Sulfonsäure]. Sm. 96-97" (J. pr. [2] **68**, 326 *C.* **1903** [2] 1171).

- *2) Jodäthylat d. 2 Methylchinolin. Sm. 234-235° (B. 37, 2010 C₁₂H₁₄NJ C. 1904 [2] 124).
 - *3) Jodäthylat d. 4-Methylchinolin. Sm. 142° (B. 37, 2821 C. 1904
- 4) Chlormethylat d. 5-Chlor-3-Methyl-1-[2-Methylphenyl]pyrazol $\mathbf{C}_{12}\mathbf{H}_{14}\mathbf{N}_{2}\mathbf{Cl}_{2}$
- + 2H₂O. Sm. 210° (wasserfrei) (B. 37, 2229 C. 1904 [2] 228). *5) 3-Thiocarbonyl-1,4,5-Trimethyl-2-Phenyl-2,3-Dihydropyrazol. C, H, N,S HCl, $(2 \text{ HCl}, \text{ PtCl}_4 + 2 \text{ H}_2\text{O})$, $(+ \text{ SO}_2 + \text{ H}_2\text{O})$ (A. 331, 215 C. 1904) [1] 1219).
 - 6) 3-Thiocarbonyl-5-Methyl-1-Aethyl-2-Phenyl-2, 3-Dihydropyrazol
 - (Aethylthiopyrin). Sm. 171°. + SO₂ (A. 331, 208 C. 1904 [1] 1219).

 7) Methyläther d. 5-Merkapto-3, 4-Dimethyl-1-Phenylpyrazol. Sm. 56°; Sd. 310°. HCl, (2HCl, PtCl₄) (A. 331, 238 C. 1904 [1] 1221).

 8) Aethyläther d. 5-Merkapto-3-Methyl-1-Phenylpyrazol. Sd. 308 bis
 - 310° (A. 331, 232 C. 1904 [1] 1221).
- 1) α -Chlor- β -Brom- α -[4-Methylphenyl]- γ -Methyl- α -Buten. Sd. 130 bis C₁₂H₁₄ClBr
- 140°₁₆ (B. 37, 1089 C. 1904 [1] 1260). *4) 1-Benzoylhexahydropyridin. Sd. 320—321° (B. 36, 3524 C. 1903 $C_{12}H_{15}ON$ [2] 1326).
 - *14) Phenylamid d. β -Methyl- β -Buten- δ -Carbonsäure. Sm. 106° (C. r. 139, 293 C. **1904** [2] 692).
 - *27) γ Oximido α Phenyl- δ Methyl- α Penten. Sm. 131—132° (Soc. 81,
 - 1489 C. 1903 [1] 138). 34) Methyläther d. 2-Oxy-3-Isopropylpseudoindol. Sm. 82° (M. 24, 572 C. 1903 [2] 887).
 - 35) 2-Keto-1-Methyl-3-Isopropyl-2,3-Dihydroindol. Sm. 960 (M. 24, 573 C. 1903 [2] 887).
 - 36) 4-Methylphenylamid d. α-Buten-α-Carbonsäure. Sm. 110°; Sd. 230
 - bis 235°_{90} (B. 37, 2000 C. 1904 [2] 24). 37) 4-Methylphenylamid d. α -Buten- δ -Carbonsäure. Sm. $81,5^{\circ}$; Sd. 205°_{16} (B. 37, 2000 C. 1904 [2] 24).
 - 38) 4-Methylphenylamid d. β -Buten- α -Carbonsäure. Sm. 106° (B. 37, 2000 C. 1904 [2] 24).
 - 39) Amid d. 1-[β-Phenyläthyl]-R-Trimethylen-2-Carbonsäure. Sm. 104 bis 105° (B. 37, 2106 C. 1904 [2] 105).
- 1) α-Bromisobutyl-4-Methylphenylketon. Sm. 57° (B. 37, 1088 C. 1904 $C_{12}H_{15}OBr$ [1] 1260).
- 40) Methyl-4-Acetylamido-1,3-Dimethylphenylketon (aus Essigsäure-2,4-Dimethylphenylamid). Sm. 119° (D.R.P. 56971). *III, 121. $C_{12}H_{15}O_2N$
 - 41) Aethyl-4-Propionylamidophenylketon. Sm. 153 (C. 1903 [1] 1223). 42) Methyläther d. δ-[4-Oxyphenyl]imido- β -Ketopentan (Acetylaceton-p-Anisidid). Sm. 49°; Sd. 195°₁₅ (B. 37, 1333 C. 1904 [1] 1361). 43) 3 - Keto-1-Oxy-1, 2-Diäthyl-2, 3-Dihydroisoindol. Sm. 129—130° (B. 27, 2006 C. 1004 [1] 2009

 - (B. 37, 388 C. 1904 [1] 669). 44) β -[1,2,3,4-Tetrahydro-4-Chinolyl] propionsäure (B. 37, 1340 C. 1904 1 1362).
 - 45) Methylester d. 8-Amido-1,2,3,4-Tetrahydronaphtalin-1-Carbonsäure. Sm. 53-54°. HCl (B. 35, 4223 C. 1903 [1] 166).
 - 46) Acetylphenylamid d. Isobuttersäure. Sm. 49-50° (Ć. r. 137, 714 C. 1903 |2| 1428).
- $C_{12}H_{15}O_2N_3$ 14) γ -Semicarbazon- α -[6-Oxy-3-Methylphenyl]- α -Buten. Sm. 2036 (B. 37, 3186 C. 1904 [2] 991).
 - 15) Diäthyläther d. 3,5-Dioxy-1-Phenyl-1,2,4-Triazol. Sm. 46-47°
- $\begin{array}{c} \text{Sin. 40-47} \\ \text{(53°)} \ (2m. \ 30, \ 39 \ \textit{C.} \ 1903 \ [2] \ 363; \ \textit{B.} \ 36, \ 3148 \ \textit{C.} \ 1903 \ [2] \ 1073). \\ \text{C}_{12}\text{H}_{15}\text{O}_{2}\text{Br}_{8} \quad 3) \ \text{3-Methyläther-4-Aethyläther d. 2-Brom-3,4-Dioxy-1-} \\ \text{propyl]benzol.} \quad \text{Fl.} \ \ (\textit{B.} \ 37, \ 1130 \ \textit{C.} \ 1904 \ [1] \ 1261). \\ \text{C}_{12}\text{H}_{15}\text{O}_{8}\text{N} \ ^*18) \ \text{Aethylester d.} \quad \text{Phenylacetylamidoessigsäure.} \quad \text{Sm. } 82^{\circ} \ (\textit{B.} \ 36, \ 1648). \\ \text{C}_{12}\text{H}_{15}\text{O}_{8}\text{N} \ ^*18) \ \text{Aethylester d.} \quad \text{Phenylacetylamidoessigsäure.} \quad \text{Sm. } 82^{\circ} \ (\textit{B.} \ 36, \ 1648). \\ \text{C}_{12}\text{H}_{15}\text{O}_{8}\text{N} \ ^*18) \ \text{Aethylester d.} \quad \text{Phenylacetylamidoessigsäure.} \quad \text{Sm. } 82^{\circ} \ (\textit{B.} \ 36, \ 1648). \\ \text{C}_{12}\text{H}_{15}\text{O}_{15}\text{$
- C. 1903 [2] 32).
 - *20) Aethylester d. 2-Methylphenylmalonaminsäure. Sm. 78° (Soc. 83, 39 C. 1903 [1] 442).
 - *21) Aethylester d. 4-Methylphenylmalonaminsäure. Sm. 86° (Soc. 83, 36 C. 1903 [1] 441).
 - *42) Aethylester d. 4-Methylbenzoylamidoessigsäure. Sm. 71° (B. 36, 1648 C. 1903 [2] 32).

 $C_{12}H_{15}O_3N$ 57) Methylenäther d. 6 - Acetylamido - 3, 4 - Dioxy - 1 - Propylbenzol. Sm. 171,5° (Ar. 242, 89 C. 1904 [1] 1007).

58) 6-Methyläther d. 6,7-Dioxy-5-Oxymethyl-2-Methyl-3,4-Dihydrochinolin. Sm. 226°. (HCl, $AuCl_3 + 4H_2O$) (B. 36, 2214 C. 1903 [2] 444).

59) Aethylester d. 2-Acetylphenylamidoessigsäure (B. 32, 3234). -*III, 96.

60) Aethylester d. Aethyphenyloxaminsäure. Sd. 215-220 (Soc. 81,

1573 Anm. C. 1903 [1] 158). 61) Phenylmonamid d. Propan - β β - Dicarbonsäuremonomethylester. Sm. 80° (Soc. 83, 1245 C. 1903 [2] 1421). C₁₂ $\mathbf{H}_{15}\mathbf{O}_{8}\mathbf{N}_{8}$ 11) Amid d. α - Benzoylamidoacetylamidoäthylamidoameisensäure.

Sm. 195° (J. pr. [2] 70, 120 C. 1904 [2] 1037).

12) 4-Nitrophenylamid d. Hexahydropyridin-1-Carbonsäure. Sm. 157° (Bl. [3] **29**, 410 C. **1903** [1] 1363).

 $C_{12}H_{15}O_8Br$ 1) 3-Methyläther-4-Aethyläther d. α -Bromäthyl-3,4-Dioxyphenylketon. Sm. 79° (B 37, 872 C. 1904 [1] 1154).

 $C_{10}H_{15}O_{3}Br_{3}$ 6) 3-Methyläther-4-Aethyläther d. 2,5-Dibrom-3,4-Dioxy-1- β -Brom-

Methyläther-4,5-Methylenäther-2-Carbonsäure) (B. 36, 1522 U. 1903 [2] 49; Soc. 83, 598 C. 1903 [1] 1034, 1364; Soc. 85, 121 U. 1904 [1] 382, 732).

46) β -[4-Dimethylamido-2-Oxybenzoyl] propionsäure. Sm. 190° (7. 1903 [2] 1433).

47) a-Phenylamidoformoxyl- β -Methylpropan- β -Carbonsäure. Sm. 126°. K (Bl. [3] 31, 129 C. 1904 [1] 644).

48) Diathylester d. Phenylamin-NN-Dicarbonsäure. Sm. 62° (B. 37, 3681 Č. **1904** [2] 1495).

49) 2,3-Dioxyphenylester d. Hexahydropyridin-1-Carbonsäure. Sm. 161° (B. 37, 109 C. 1904 [1] 584).

50) 3-Acetat d. 4-Acetylamido-1, 3-Dioxybenzol-1-Aethyläther. Sm.

50) 3-Accetat d. 4-Accetylamido-1, 3-Dioxybenzol-1-Actnylatner. Sm. 91—93° (J. pr. [2] 70, 328 C. 1904 [2] 1541).
 51) β-Benzylamid d. 1-α-Oxyäthan-αβ-Dicarbonsäure-α-Methylester. Sm. 105° (B. 37, 2127 C. 1904 [2] 439).
 52) β-[4-Methoxylphenylamid] d. Propan-αβ-Dicarbonsäure. Sm. 173" (G. 34 [2] 268 C. 1904 [2] 1454).
 53) 4-Acthoxylphenylamid d. Acctoxylessigsäure. Sm. 130—131" (B. 37, 3975 C. 1904 [2] 1605).

(B. 37, 3975 C. 1904 [2] 1605).

 $C_{19}H_{15}O_4N_8$ 10) β -Methyläther-3,4-Methylenäther d. α -Semicarbazon- β -Oxy- α -[3,4-Dioxyphenyl]propan. Sm. 181° (A. 332, 335 C. 1904 [2] 652).

11) α -Phenylhydrazon- γ -Amidobutan- $\alpha\gamma$ -Dicarbonsäure + H₂(). Sm. 156° u. Zers. K + 4H₂O (R. 23, 144 C. 1904 [2] 193).

2) 8-Diacetylamido-2, 6-Diketo-1, 3, 7-Trimethylpurin. Sm. 145 (D. R. P. $C_{12}H_{15}O_4N_5$

C₁₂H₁₅O₄N₅

139 960 C. 1903 [1] 859).

C₁₂H₁₅O₅N

18) 4,6,7-Trioxy-2-Methyl-1,2,3,4-Tetrahydrochinolin-6-Methyläther-5-Carbonsäure. HCl, (2HCl, PtCl₄) (B. 36, 2212 C. 1903 [2] 444).

19) 3-Methylester-a-Aethylester d. 6-Oxyphenylamidoessigsäure-3-

Carbonsäure. Sm. 126° (A. 325, 322 C. 1903 [1] 770). C₁₂H₁₅O₃Cl *1) Lakton d. Chlortriacetylgalaktonsäure. Sm. 98° (C. 1903 [2] 1051). C₁₂H₁₅O₃N₃ *1) Triäthyläther d. 2, 4, 6-Trinitro-1, 3, 5-Trioxybenzol. Sm. 119° (Am. 32, 173 C. 1904 [2] 950).

 $C_{12}H_{16}ON_2$ *17) Phenylamid d. Hexahydropyridin-l-Carbonsäure. Sm. 1680 (Bl. [3] 29, 410 C. 1903 [1] 1363).

25) α -[d-sec. Butyl]- β -Benzylharnstoff. Sm. 105° (Ar. 242, 71 C. 1904

26) 5-Oxy-3,4,4-Trimethyl-1-Phenyl-4,5-Dihydropyrazol. Sm. 118" (B. 36, 1275 C. 1903 [1] 1253)

27) Cyanhydrin (aus d. Nitril C₁₁H₁₅ON). Sm. 106—108° (C. 1904 [1] 1082). $C_{12}H_{16}O_{2}N_{2}$ *20) α -Phenylhydrazon- $\beta\beta$ -Dimethylpropan- α -Carbonsäure. Sm. 153" (A. 327, 204 C. 1903 [1] 1407).

47) 4-Diacetylamido-l-Dimethylamidobenzol. Sm. 68-69 (A 334, 312 C. 1904 [2] 986).

48) Phenylamidoformiat d. 1-Oxyhexahydropyridin. Sm. 105-106" (B. 37, 3236 C. 1904 [2] 1153).

 $C_{12}H_{16}O_2N_4$ 4) 7-Nitro-4-Dimethylamido-2,5-Dimethylbenzimidazol. Sm. 146,50 J. pr. [2] 67, 570 C. 1903 [2] 241).

5) Di[Methylamid] d. 4-Methylphenylhydrazonmethan-αα-Dicarbonsäure. Sm. 91° (B. 37, 4179 C. 1904 [2] 1705).

- $C_{12}H_{16}O_2Br_2*1$) 3-Methyläther-4-Aethyläther d. 3,4-Dioxy-1- $[\alpha\beta$ -Dibrompropyl]benzol (B. 37, 1130 C. 1904 [1] 1261).
- $C_{12}H_{16}O_8N_2$ 39) r-Benzoylornithin (r-Monobenzoyl- $\alpha\delta$ -Diamidovaleriansäure). Sm. 228° u. Zers. (B. 34, 463). — *II, 1237.
 - 40) α -[α -Amidopropionyl]amido- β -Phenylpropionsäure + 2 H_2 0. Sm. 241—243° (B. 37, 3312 C. 1904 [2] 1306).
 - 41) Aethylester d. α-Benzoylamidoäthylamidoameisensäure. Sm. 140°
 - (J. pr. [2] 70, 146 C. 1904 [2] 1394).
 42) Amid d. β-[4-Dimethylamido-2-Oxybenzoyl] propionsäure. Sm. 217 bis 220° u. Zers. (C. 1903 [2] 1433).
 - 43) Phenylmonohydrazid d. Propan- $\beta\beta$ -Dicarbonsäuremonomethylester. Sm. 111° (Soc. 83, 1250 C. 1903 [2] 1422).
- $C_{12}H_{16}O_3N_4$ 2) Hydrazid d. α-Benzoylamidoacetylamidopropionsäure. Sm. 187° (J. pr. [2] 70, 118 C. 1904 [2] 1036).
 - 3) Hydrazid d. α-Benzoylamidopropionylamidoessigsäure. Sm. 161 bis 162° (J. pr. [2] 70, 154 C. 1904 [2] 1395).
- $C_{12}H_{16}O_3Br_2$ *3) 3-Methyläther- α -Aethyläther d. 5-Brom-3,4-Dioxy-1-[β -Brom- α -Oxypropyl]benzol. Sm. $66-67^\circ$ (4. 329, 17 C. 1903 [2] 1435).
 - 4) 3-Methyläther-4-Aethyläther d. 2-Brom-3,4-Dioxy-1- β -Brom- α -Oxypropyl]benzol. Sm. 106-107° (B. 37, 1131 C. 1904 [1] 1261).
- $C_{12}H_{16}O_4N_2$ *1) $\delta \epsilon$ -Diimido- $\gamma \zeta$ -Diäthanoyl- $\beta \gamma$ -Diketooktan (A. 332, 147 C. 1904 [2]
 - 30) Diäthylester d. 3,6-Dimethyl-1,2-Diazin-4,5-Dicarbonsäure. Sm. 22°; Sd. 275° u. Zers. + HgCl₂ (B. 36, 508 C. 1903 [1] 654; B. 36, 2538 C. 1903 [2] 727).
- 2) Methylester d. β -Phenylureïdoacetylamidomethylamidoameisensäure. Sm. 201° u. Zers. (J. pr. [2] 70, 258 C. 1904 [2] 1464). $C_{12}H_{16}O_4N_4$
- 1) Verbindung (aus Methylchavicol). Fl. (B. 36, 3580 C. 1903 [2] 1363). $C_{12}H_{16}O_4Hg$ 8) Methyläther d. 3,5-Dinitro-4-Oxy-1-tert. Amylbenzol. Sm. 39° (A. 327, 213 C. 1903 [1] 1408). $C_{12}H_{16}O_5N_2$
- 6) 2-Oxybenzoylhydrazon d. 1-Arabinose. Zers. 1910 (C. 1904 [2] 1494). $C_{12}H_{16}O_6N_2$ *7) $\alpha\delta$ -Diäthylester d. $\beta\gamma$ -Diimidobutan- $\alpha\alpha\delta\delta$ -Tetracarbonsäure. Na₂ (A. 332, 124 C. 1904 [2] 189). $C_{12}H_{16}O_8N_2$
- *2) Jodallylat d. 1,2,3,4-Tetrahydrochinolin. Sm. 169—170° (141°?) $C_{12}H_{16}NJ$ (B. **35**, 3910 C. **1903** [1] 36).
- 1) Gem. Anhydrid d. Dimethylamidodithioameisensäure u. Aethyl- $C_{12}H_{16}N_2S_3$ amidodithioameisensäure. Sm. 95° (B. 36, 2282 C. 1903 [2] 560).
- C₁₂H₁₇ON *17) α -Cyanmethylcampher (*C. r.* 136, 789 *C.* 1903 [1] 1085). *18) β -Cyanmethylcampher (*C. r.* 136, 789 *C.* 1903 [1] 1085). *25) Diäthylamid d. Phenylessigsäure. Sd. 167—168 $^{\circ}_{15}$ (*B.* 36, 3525

 - C. 1903 [2] 1326).
 - *56) 1-Benzylhexahydropyridin-N-Oxyd. Sm. 148°. HCl, (HCl, AuCl₃), Pikrat (B. 37, 3232 C. 1904 [2] 1152).
 - 61) Amid d. α-Phenylpentan-ε-Carbonsäure. Sm. 95-96° (B. 37, 2106 C. 1904 [2] 105).
 - 62) Methylphenylamid d. Isovaleriansäure. Sm. 22°; Sd. 170°, 50 $(C. \ r. \ 139, 300 \ C. \ 1904 \ [2] \ 703).$
- 6) Inn. Anhydrid d. Oxymethylencamphersemicarbazon. Sm. 205 $C_{12}H_{17}ON_3$ bis 207° (A. 329, 130 C. 1903 [2] 1323).
 - 7) Inn. Anhydrid d. Oxymethylendihydrocarvonsemicarbazon. Sm. 125—127° (und 146—148°) (A. 329, 124 C. 1903 [2] 1323).
 - 8) Inn. Anhydrid d. Oxymethylenthujonsemicarbazon. Sm. 133—134° (A. 329, 125 C. 1903 [2] 1323).
 - 9) Inn. Anhydrid d. Oxymethylenisothujonsemicarbazon. Sm. 193—1940 (A. 329, 126 C. 1903 [2] 1323).
- C₁₂H₁₇O₂N *48) Phenylester d. Diäthylamidoessigsäure. Fl. HCl (Ar. 240, 633 C. 1903 [1] 24).
 - *55) Phenylamidoformiat d. d-α-Oxy-β-Methylbutan. Sm. 30° (B. 37, 1049 C. 1904 [1] 1249).

C₁₂H₁₇O₂N 57) 2-Methylphenylester d. Diäthylamidoameisensäure. Sm Sd. 178—179°₁₅ (Bl. [3] 31, 20 C. 1904 [1] 508). 58) Phenylamidoformiat d. δ-Oxy-β-Methylbutan. Sm. 55° (57° (B. 37, 1049 C. 1904 [1] 1249; Bl. [3] 31, 600 C. 1904 [2] 191. 59) Benzylamid d. α-Oxy-β-Methylpropan-β-Carbonsäure. Sm. (Bl. [3] 31, 124 C. 1904 [1] 644). Sm. 52°; Sm. 55° (57-58°) $C_{12}H_{17}O_2N_3$ 10) β -Nitro- δ -Phenylhydrazon- β -Methylpentan. Sm. 97° (B. 36, 658) C. 1903 [1] 763). C₁₂H₁₇O₂Br₈ 1) 1-Bornylester d. Tribromessigsäure. Sm. 61° (C. r. 134, 609 C. 1902 [1] 872). — *III, 339. 23) Säure (aus d. Cyanhydrin $C_{12}H_{16}ON_2$) (C. 1904 [1] 1083). $C_{12}H_{17}O_8N$ 24) Methylester d. 3-Diäthylamido-4-Oxybenzol-1-Carbonsäure. Sd. 285°. HJ (A. 325, 331 C. 1903 [1] 770). Aethylester d. 6-Oxy-2-Methyl-5-Propylpyridin-6-Aethyläther-3-Carbonsäure. Sm. 152° (G. 33 [2] 166° C. 1903 [2] 1283). 26) 2-Methoxylphenylester d. Diäthylamidoameisensäure. Sd. 299-300° (Bl. [3] 31, 691 C. 1904 [2] 198). 5) Dimethyläther d. β -Semicarbazon- α -[3,4-Dioxyphenyl] propan. Sm. 176 $^{\circ}$ (A. 332, 336 C. 1904 [2] 652). $C_{12}H_{17}O_3N_3$ 6) β , 4-Dimethyläther d. α -Semicarbazon- β -Oxy- α -[4-Oxyphenylpropan. Sm. 192° (A. 332, 329 C. 1904 [2] 651). 1) Methylester d. Chlorcamphocarbonsäure. Sm. 52-53° (B. 35, 4114 $C_{12}H_{17}O_{3}Cl$ C. 1903 [1] 82). isom. Chlorcamphocarbonsäure. 2) Methylester d. (B. 35, 4115 C. 1903 [1] 82). C12H17O8Br 3) Methylester d. o-Bromcamphocarbonsäure. Sm. 64-660 (B. 36. 1724 C. 1903 [2] 37; B. 36, 4280 Anm. C. 1904 [1] 457). 1) Methylester d. o-Jodcamphocarbonsäure. Sm. 71 72° (B. 36, $C_{12}H_{17}O_3J$ 1725 C. 1903 [2] 37; B. 36, 4276 C. 1904 [1] 457). 13) s-Benzylidenamido- $\alpha \beta \gamma \delta$ -Tetraoxypentan (Benzalarabinamin). Sm. 160 $C_{12}H_{17}O_4N$ bis 161° u. Zers. (C. r. 136, 1081 C. 1903 [1] 1305). 10) Trimethyläther d. 4-Nitro-2, 3, 5-Trioxy-1-Propylbenzol. Sm. 65° $C_{12}H_{17}O_5N$ (B. 36, 1718 C. 1903 [2] 114). 1) Diäthylester d. 2-Chlormethyl-2, 3-Dihydrofuran-4-Carbonsäure-C₁₂H₁₇O₅Cl 5 - Methylcarbonsäure. Sd. 198-199°₁₇ (C. r. 137, 12 C. 1903 [2] 507). 3) ε -Aethylester d. γ -Cyan- β -Methylpentan- $\beta\gamma\varepsilon$ -Tricarbonsäure. K₂ (Soc. 85, 137 C. 1904 [1] 728). $C_{12}H_{17}O_6N$ 4) Triäthylester d. β -Cyanäthan- $\alpha\alpha\beta$ -Tricarbonsäure. Sm. 45-47° (Am. 30, 468 C. 1904 [1] 378). C 48,1 — H 5,7 — O 32,1 — N 14,0 — M. G. 299. C12H17O8N8 1) 4-Nitrophenylhydrazon d. Rhamnose. Sm. 1860 (R. 22, 438 C. 1904 [1] 15) $C^{1}45,7$ — H 5,4 — O 35,6 — N 13,3 — M. G. 315. C,2H,7O,N, 1) 4-Nitrophenylhydrazon d. Fruktose. Sm. 176° (R. 22, 438 C. 1904 [1] 15). 2) 4-Nitrophenylhydrazon d. Galaktose. Sm. 1920 (R. 22, 438 C. 1904 [1] 15). 3) 4-Nitrophenylhydrazon d. Glykose. Sm. 185° (R. 22, 436 C. 1904 4) isom. 4 - Nitrophenylhydrazon d. Glykose. Sm. 195" (R. 22, 436 C. 1904 [1] 15). 5) 4-Nitrophenylhydrazon d. Mannose. Sm. 190 (R. 22, 437 (. 1904 [1] 15). 6) isom. 4-Nitrophenylhydrazon d. Mannose. Sm. 2020 (R. 22, 437 C. 1904 [1] 15). 2) Methylisoamyläther d. 3,5-Dinitro-2,2-Dioxychinolnitrosäure? $C_{12}H_{17}O_8N_8$ Na (Am. 29, 105 C. 1903 [1] 708).
3) Phenylamid d. Thioisocapronsäure. Sm. 63° (B. 36, 588 C. 1903 C12H17NS [1] 830). $C_{12}H_{18}ON_2$ 19) Methylphenylhydrazid d. Isovaleriansäure. Sm. 61° (M. 24, 576

Amid d. α-Diäthylamidophenylessigsäure. Sm. 143—144° (B. 36, 4192 C. 1904 [1] 263).

C. 1903 [2] 887).

- $C_{12}H_{18}O_2S$ 4) Acetat d. β -Merkaptocampher. Sm. 38° (Soc. 83, 483 C. 1903 [1] 923, 1137).
- $C_{12}H_{18}O_3N_2$ 4) Monoacetat d. α-d-Campherdioxim. Sm. 148—149° u. Zers. (Soc. 85, 909 C. **1904** [2] 597).
- 14) δ Phenyl β Methylpentan ? Sulfonsäure. Na + 1 $\frac{1}{2}$ H₂O, Mg + 3 H₂O, Ba + H₂O, Cu + 3 H₂O (B. 37, 2308 C. 1904 [2] 216). 15) d- α -Phenyl- γ -Methylpentan-?-Sulfonsäure. Ba (B. 37, 654 C. 1904 $C_{12}H_{18}O_8S$
- $C_{12}H_{18}O_4N_2$ *3) Diathylester d. 3,6-Dimethyl-4,5-Dihydro-1,2-Diazin-4,5-Dicarbonsäure. Sm. 68-69 (B. 35, 4311 C. 1903 [1] 335; B. 36, 500 C. 1903 [1] 653).
 - *4) Methylphenylhydrazon d. l-Arabinose. Sm. 1640 (B. 37, 312 C. 1904 [1] 650; B. 37, 3853 C. 1904 [2] 1711).
 - *6) Phenylhydrazon d. Fukose. Sm. 170—171° (172—173°) (B. 37, 307 C. 1904 [1] 649; B. 37, 3859 C. 1904 [2] 1712).
 - *8) Pyrazolon (aus 5-Keto-1-Oxy-1,3-Dimethylhexahydrobenzol-3,5-Dicarbonsäurediäthylester) (A. 332, 20 C. 1904 [1] 1565).

 9) Methylphenylhydrazon d. Xylose. Sm. 108—110° (B. 37, 311
 - C. 1904 [1] 650).
 - 10) Aethylester d. α -Cyan- α -Oxyessig-[β -Cyan- α -Aethoxylbutyl]äther-
 - säure. Sm. 68°; Sd. 215°₂₀ (C. 1904"|1] 159). 11) Diäthylester d. 1-Amido-2,5-Dimethylpyrrol-3,4-Dicarbonsäure. Sm. 102—103° (B. 35, 4312 C. 1903 [1] 336).
- $\mathbf{C}_{12}\mathbf{H}_{18}\mathbf{O_4N_6}$ - H 5,8 — O 20,6 — N 27,1 — M. G. 310. C 46,5 -
 - 1) 2,4,2',4'-Tetraketo-3,5,5,3',5',5'-Hexamethyloktohydro-1,1'-Azo-imidazol. Zers. bei 278° (C. 1904 [2] 1029).
- 4) α-[2-Oxyphenyl] butanäthyläther-?-Sulfonsäure (B. 37, 4000 C. 1904 C12H18O4S [2] 1641).
- 2) α -Isoamylsulfon- α -Phenylsulfonmethan. Sm. 86-88° (B. 36, 300 $C_{12}H_{18}O_4S_2$ C. 1903 [1] 500).
 - 3) 1,3-Di[Propylsulfon]benzol. Sm. 109—110° (J. pr. [2] 68, 321 C. 1903 [2] 1170).
- $\mathbf{C}_{12}\mathbf{H}_{18}\mathbf{O}_{5}\mathbf{N}_{2}$ 14) α -[$\beta\gamma\delta\epsilon$ -Tetraoxyamyl]- β -Phenylharnstoff (Arabinaminphenylharnstoff). Sm. 179° (C. r. 136, 1079 C. 1903 [1] 1305).
 - 15) Phenylhydrazid d. Fukonsäure. Sm. 203-204° (B. 37, 309 C. 1904) [1] 649).
 - 16) Phenylhydrazid d. Rhodeonsäure. Sm. 206 (B. 37, 3860 C. 1904 [2] 1712).
- C₁₂H₁₈O₆N₂*11) Triäthylester d. 4,5-Dihydropyrazol-3,4,5-Tricarbonsäure. Sm. 99° (B. **36**, 3513 C. **1903** [2] 1275).
 - 12) Diisobutylester d. Bisanhydronitroessigsäure. Sd. 180—185 on (Bl. [3] 31, 681 C. 1904 [2] 195).
- $C_{12}H_{18}O_{6}N_{4}$ *2) Azin d. Oximidoacetessigsäureäthylester (Diäthylester d. Bisdiazoacetessigsäure). Sm. 194° u. Zers. (G. 34 [1] 179 C. 1904 [1] 1332; B. 37, 2831 C. 1904 [2] 642).
- $C_{12}H_{18}O_8N_2$ C 45.3 - H 5.7 - O 40.2 - N 8.8 - M. G. 318.1) Monoathylester d. γ -Amido- δ -Imidohexan- $\beta\beta\varepsilon\varepsilon$ -Tetracarbonsaure.
- Sm. 139—140° u. Zers. (B. 35, 4127 C. 1903 [1] 136). C 27,6 — H 3,8 — O 33,5 — N 35,1 — M. G. 478. $\mathbf{C}_{12}\mathbf{H}_{18}\mathbf{O}_{10}\mathbf{N}_{12}$
- 1) Verbindung (aus Nitromalonsäureamid) (M. 25, 115 C. 1904 [1] 1553). *1) Chlormethylat d. 1-Aethyl-1, 2, 3, 4-Tetrahydrochinolin. 2 + PtCl₄ C₁₂H₁₈NCl
 - (Soc. 83, 1417 C. 1904 [1] 439). 6) d-Methyläthylallylphenylammoniumchlorid. 2 + PtCl₄ (Soc. 83, 1420 C. **1904** [1] 439).
 - 7) Methyläthylallylphenylammoniumchlorid. 2 + PtCl₄ (B. 36, 3794) C. 1904 [1] 20).
- 2) Methyläthylallylphenylammoniumbromid. Zers. bei 140°. + CHCl_s $C_{12}H_{18}NBr$ (B. 36, 3796 C. 1904 [1] 20).
- *7) Methylathylallylphenylammoniumjodid. Sm. 75-80°. + CHCl_s $C_{12}H_{18}NJ$ (B. 36, 3793 C. 1904 [1] 20).
- 8) α -[d-sec. Butyl]- β -Benzylthioharnstoff. Sm. 58° (Ar. 242, 62 C. 1904) $C_{12}H_{18}N_2S$
- *6) Oxim d. Xyliton. Fl. (L. Blach, Dissert., Heidelberg 1900). C, H, ON

12 111.	
C ₁₂ H ₁₉ ON *10)	Methylhydroxyd d. 1-Aethyl-1,2,3,4-Tetrahydrochinolin. d-Brom-camphersulfonat (Soc. 83, 1417 C. 1904 [1] 439).
*16)	Aethyläther d. 6-Amido-3-Oxy-4-Isopropyl-1-Methylbenzol. Fl. (B. 36, 2891 C. 1903 [2] 875).
18)	g -Dimethylamido- $β$ -Oxy- $α$ -Phenyl- $β$ -Methylpropan. Sd. 144 $^{0}_{24}$ (C. r. 138, 768 C. 1904 [1] 1196).
19)	Methyläthylallylphenylammoniumhydroxyd. d-Bromcamphersulfo-
20)	nat (Soc. 83, 1419 C. 1904 [1] 439). 4-Oximido-6-Isobutenyl-2, 2-Dimethyl-1, 2, 3, 4-Tetrahydrobenzol. Sm. 98° (L. Blach, Dissert., Heidelberg 1900).
	Oxim d. Isoxyliton. Fl. (L. Blach, Dissert, Heidelberg 1900). δ-Phenylhydrazon-β-Hydroxylamido-β-Methylpentan. Sm. 120°;
14 10 0	Sd. $140-150^{\circ}_{10}$ u. Zers. Oxalat (B. 36, 656 C. 1903 [1] 762). Semicarbazon d. Santalon. Sm. 175° (Ar. 238, 373). — *III, 415.
5	Inn. Anhydrid d. Oxymethylenmenthonsemicarbazon. Sm. 117 bis 118° (und 143—144°) (A. 329, 122 C. 1903 [2] 1322).
6	Inn. Anhydrid d. Oxymethylentetrahydrocarvonsemicarbazon. Sm. 178—182° (150°) (A. 329, 123 C. 1903 [2] 1323).
7	17nn. Anhydrid d. Oxymethylenthujamenthonsemicarbazon. Sm. 121 bis 122° (und 159—161°) (4. 329, 127 C. 1903 [2] 1323).
$C_{12}H_{19}OBr$ 2	Aethylbromcampher. Sd. 115—120° ₁₀ (C. r. 138, 578 C. 1904 [1] 948).
C.H.OJ. 1) Verbindung (aus d-Pinen) (G. 33 [1] 398 C. 1903 [2] 571). Verbindung (aus d-Pinen) (G. 33 [1] 399 C. 1903 [2] 571).
$C_{12}H_{19}OJ_8$ 1	Verbindung (aus d-Pinen) (G. 33 [1] 397 C. 1903 [2] 571). Aethyläther d. Oximidocampher. Sm. 71° (Soc. 85, 903 C. 1904
14 15 4	[2] 597).
•	α -Aethyläther d. γ -[4-Methylphenyl]amido- $\alpha\beta$ -Dioxypropan. Sm.41 bis 42° (B. 37, 3035 C. 1904 [2] 1213).
11° 12°	α-oximidoathylcampher. Sm. 164° (B. 36, 2637 C. 1903 [2] 626). Nitril d. 5-Acetoxyl-1,1,3-Trimethylhexahydrobenzol-5-Carbon-
•	säure. Sd. 146° ₁₇ (D.R.P. 141699 C. 1903 [1] 1245). Semicarbazon d. Oxymethylencampher. Sm. 217—218° (A. 329, 129
12 10 2 0 ,	6. 1903 [2] 1323). Semicarbazon d. Oxymethylendihydrocarvon. Sm. 163—165° (A. 329,
•	124 C. 1903 [2] 1323). Semicarbazon d. Oxymethylenthujon. Sm. 179—181° (A. 329, 125
	C. 1903 [2] 1323). Semicarbazon d. Oxymethylenisothujon. Sm. 204—205° (A. 329,
	126 C. 1903 [2] 1323).
) 1-Bornylester d. Chloressigsäure. Sd. 147° 30 (Ar. 240, 649 C. 1903 [1] 399).
	Verbindung (aus l-Borneol u. Chloral). Sm. 48° (C. r. 132, 1574). - *III, 338.
) Verbindung (aus i-Borneol u. Chloral). Sm. 48° (C. r. 132, 1574). — *III, 339.
	Verbindung (aus l-Borneol u. Tribromessigsäurealdehyd). Sm. 109° (C. r. 132, 1574). — *III, 338.
	l) Verbindung (aus i-Borneol u. Tribromessigsäurealdehyd). Sm. 82° (C. r. 132, 1574). — *III, 339.
•	7) Trimethyläther d. Dimethyl-3,4,5-Trioxybenzylamin (N-Methyl-mezcalin). (2 HCl, PtCl ₄), HJ (B. 31, 1195; 34, 3011). — *III, 601.
	 Diäthylester d. cis - α - Cyan - β - Methylbutan - α γ - Dicarbonsäure. Sd. 172°₁₇ (C. r. 136, 243 C. 1903 [1] 565).
	2) Diäthylester d. γ -Cyan- β -Methylbutan- $\alpha\gamma$ -Dicarbonsäure. Sd. 185° (Soc. 83, 355 C. 1903 [1] 389, 1122).
	B) Diäthylester d. α -Cyan- β -Methylbutan- $\alpha\delta$ -Dicarbonsäure. Sd. 175 bis 185°_{20} (C. 1903 [2] 1425).
	 2, 5-Diketo-4, 4-Dimethyl-1-Allyltetrahydroimidazol-3-a-Amidoiso- buttersäure. Sm. 114° (C. 1904 [2] 1029).
$\mathbf{C}_{12}\mathbf{H}_{19}\mathbf{O}_4\mathbf{P}$	 Säure (aus Benzaldehyd). Sm. 192° (C. r. 138, 1708 C. 1904 [2] 423). Säure (aus Isovaleraldehyd). Sm. 203—205° (C. r. 138, 1709 C. 1904 [2] 423).
	3) Säure. Sm. 170° (C. r. 138, 1708 C. 1904 [2] 423).

- $C_{12}H_{19}O_5N_8$ C 50.5 - H 6.7 - O 28.1 - N 14.7 - M. G. 285.1) Diäthylester d. Azodiazobisacetessigsäure. Sm. 140° u. Zers. (G. 34 [1] 209 C. 1904 [1] 1486). 2) Triäthylester d. α-Chlorpropan-ααγ-Tricarbonsäure. Fl. (Soc. 85, C₁₉H₁₉O₆Cl 863 C. 1904 [2] 512). Triäthylester d. α-Brompropan-α α γ-Tricarbonsäure. Fl. (C. 1903 [1] 628; Soc. 85, 863 C. 1904 [2] 512). $C_{12}H_{19}O_6Br$ $C_{12}H_{19}O_6J$ 1) Triäthylester d. α-Jodpropan-ααγ-Tricarbonsäure. Fl. (C. 1903 [1] 628; Soc. 85, 863 C. 1904 [2] 512). 2) Methylester d. Bornylxanthogensäure. Sm. 56-57° (C. 1904 [2] 983). $C_{12}H_{20}OS_2$ C 60,0 - H 8,3 - O 20,0 - N 11,7 - M. G. 240. $\mathbf{C}_{12}\mathbf{H}_{20}\mathbf{O_3N_2}$ 1) 2,4,6-Triketo-5,5-Diisobutylhexahydro-1,3-Diazin. (D.R.P. 146496 C. 1903 [2] 1484; A. 335, 346 C. 1904 [2] 1381). 2) 2, 4, 6-Triketo-1, 3, 5, 5-Tetraäthylhexahydro-1, 3-Diazin. Sd. 125,5 bis 126° (A. 335, 349 C. 1904 [2] 1381).

 3) Methylhydroxyd d. Isopilocarpin. Salze siehe (C. 1897 [1] 1214; Bl. [3] 17, 563; Soc. 77, 485, 853; B. 35, 2442). — *III, 685.

 6) Azin d. Acetessigsäureäthylester. Sm. 47—48° (B. 37, 2830 C. 1904). $C_{12}H_{20}O_4N_2$ 7) Dimethylisobutylphenylammoniumjodid. Sm. 155-156° (Soc. 83, $C_{12}H_{20}NJ$ 1408 C. 1904 [1] 438). *3) Dijodmethylat d. i-Nikotin. Sm. 219° (B. 37, 1228 C. 1904 [1] 1278). $C_{12}H_{20}N_2J_2$ 1) Sulfid d. Hexahydropyridin-1-Dithiocarbonsäure. Sm. 120° (B. 36, $C_{12}H_{20}N_2S_8$ 2281 C. 1903 [2] 560). 19) Methyldipropylphenylammoniumhydroxyd. Jodid, d-Camphersul- $C_{12}H_{21}ON$ fonat (Soc. 83, 1409 C. 1904 [1] 438). 1) Verbindung (aus Phellandrendibromid). Sd. 125-135% (B. 36, 1754 $C_{12}H_{21}OBr$ C. 1903 [2] 117). 5) Acetyllupinin. (HCl, AuCl₈) (Ar. 235, 276). — *III, 664. 2) Semicarbazon d. Oxymethylenmenthon. Sm. 167—169° (A. 329, 121 $C_{12}H_{21}O_2N$ $C_{12}H_{21}O_2N_3$ C. 1903 [2] 1322). 3) Semicarbazon d. Oxymethylenthujamenthon. Sm. 125—145° (A. 329, 127 C. 1903 [2] 1323). C₁₂H₂₁O₂Cl *2) 1-Menthylester d. Chloressigsäure. Sm. 38° (Ar. 240, 646 C. 1903) [1] 399). 4) Hydrobromid d. $\beta\zeta$ -Dimethyl- $\alpha\vartheta$ -Nonadiën- ι -Carbonsäure. Fl. $C_{12}H_{21}O_2Br$ (B. 36, 2799 C. 1903 [2] 877). 10) Diäthýlester d. r-Tropinsäure. Sd. 160°_{18,5} (B. 33, 414). — *III, 615.
 1) Gem. Anhydrid d. Buttersäure u. Borsäure. Fl. (B. 36, 2223) $\mathbf{C}_{12}\mathbf{H}_{21}\mathbf{O}_4\mathbf{N}$ $C_{12}H_{21}O_6B$ C. 1903 [2] 421). C 46,9 - H 6,8 - O 41,7 - N 4,6 - M. G. 307. $C_{12}H_{21}O_8N$ 1) Diisobutylester d. Nitroweinsäure. Fl. (B. 35, 4367 C. 1903 [1] 321; B. 36, 780 C. 1903 [1] 826). *1) Chondrosin (H. 37, 411 C. 1903 [1] 1146). $C_{12}H_{21}O_{11}N$ 2) Jodpropylat d. s-Propylphenylhydraziń (C. r. 137, 330 C. 1903 [2] $C_{12}H_{21}N_2J$ 716; Bl. [3] 29, 970 C. 1903 [2] 1115). *6) Nitrolpiperidid d. 5-Methyl-1, 2, 3, 4-Tetrahydrobenzol. Sm. 152 bis 153° (B. 36, 329; A. 329, 370 C. 1904 [1] 516).
 7) 5-Keto-3-Methyl-4-norm. Oktyl-4, 5-Dihydropyrazol. Sm. 182° (Bl. [3] 31, 762 C. 1904 [2] 343). $C_{12}H_{22}ON_2$ 8) 5-Keto-3-Methyl-4-sec. Oktyl-4,5-Dihydropyrazol. Sm. 137° (Bl. [3] 31, 762 C. 1904 [2] 343). *1) Methylester d. Menthylxanthogensäure (C. 1904 [1] 1347). $C_{12}H_{22}OS_2$ 2) Methylester d. Thujamenthylxanthogensäure. Fl. (B. 37, 1485 C. 1904 [1] 1349). $C_{12}H_{22}O_2N_2$ *3) 2,5-Diketo-3,6-Diisobutylhexahydro-1,4-Diazin. Sm. 265° (B. 37,
 - C₁₂H₂₂O₂N₆ C 51,1 H 7,8 O 11,3 N 29,8 M. G. 282. 1) 2,3-Disemicarbazon-4-Isopropyl-1-Methylhexahydrobenzol.Sm. 268 bis 270° u. Zers. (C. 1904 [2] 1044).

1182 C. 1904 [2] 1710).

- Semicarbazon d. Semicarbazidodihydroumbellulon. Sm. 217° u.
 Zers. (Soc. 85, 635 C. 1904 [1] 1607 C. 1904 [2] 333).
- Zers. (Soc. 85, 635 C. 1904 [1] 1607 C. 1904 [2] 333). $C_{12}H_{22}O_2Br_2$ 1) Dihydrobromid d. $\beta\zeta$ -Dimethyl- $\alpha\vartheta$ -Nonadiën- ι -Carbonsäurë. Fl. (B. 36, 2800 C. 1903 [2] 877).

 $C_{12}H_{28}NC1$

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Sm. 148° (C. r. 137, 199
               1) Di[2-Oxyhexahydrophenyl]nitrosamin.
                  C. 1903 [2] 665).
               2) isom. Di[2-Oxyhexahydrophenyl]nitrosamin. Sm. 1710 (C. r. 137,
                  199 C. 1903 [2] 665).
C 52,6 — H 8,0 — O 29,2 — N 10,2 — M. G. 274.
C_{12}H_{22}O_5N_2
               1) Verbindung (aus Acetylen). Sd. 135-140° (G. 33 [2] 321 C. 1904
                  [1] 255).
               9) I-P-Menthylamid d. Essigsäure. Sm. 136—137° (C. 1904 [2] 1046). C 64,0 — H 10,2 — O 7,1 — N 18,7 — M. G. 225.
C_{12}H_{23}ON
 C_{12}H_{23}ON_3
               1) Semicarbazon d. isom. 1-Methylmenthon. Sm. 203-204° (U. 1904)
                  [2] 1046).
              *1) Chlorid d. Laurinsäure. Sd. 135-140° (Bl. [3] 29, 1122 C. 1904
C<sub>12</sub>H<sub>25</sub>OCl
                  [1] 259).
               8) Di[2-Oxyhexahydrophenyl]amin. Sm. 153°. HCl (C. r. 137, 199
C_{12}H_{23}O_2N
               C. 1903 [2] 665).
9) isom. Di [2-Oxyhexahydrophenyl]amin. Sm. 114°. HCl (C. r. 137,
                  199 C. 1903 [2] 665).
              10) Methylester d. 1 - Menthylamidoameisensäure. Sm. 53° (Soc. 85,
                  689 C. 1904 [2] 332).
              11) Aethylester d. 1,2,2,5,5-Pentamethyltetrahydropyrrol-3-Carbon-
säure. Sd. 227°<sub>760</sub> (B. 36, 3361 C. 1903 [2] 1185).
C_{19}H_{23}O_{2}Br *1) \alpha-Bromundekan-\alpha-Carbonsäure (\alpha-Laurinsäure). Sm. 32° (Bl. [3] 29,
                  1123 C. 1904 [1] 259).
               2) sec. Oktylester d. α-Semicarbazonpropionsäure.
                                                                              Sm. 118-119°
C_{12}H_{25}O_3N_8
                 (C. r. 138, 985 C. 1904 [1] 1398).

    Aethylester d. α-Amidoisocapronylamidoacetylamidoessigsäure.
Fl. HCl (B. 36, 2991 C. 1903 [2] 1112).

C_{12}H_{23}O_4N_3
               2) \gamma-Oximido-\beta-Semicarbazon-\delta-Methyldekan. Sm. 178° (Bl. [3] 31,
C_{12}H_{24}O_2N_4
                 1169 C. 1904 [2] 1701).
C_{12}H_{24}O_3N_2 *3) i-\alpha-[\alpha-Amidoisocapronyl]amidoisocapronsäure +1\frac{1}{2}H_2O (i-Leucyl-
                 leucin) (B. 37, 2493 C. 1904 [2] 425).
              C 54,1 — H 5,3 — O 30,1 — N 10,5 — M. G. 266.
1) d-Kaseinsäure. Sm. 226^{\circ} (228°). Cu (B. 37, 1597 C. 1904 [1] 1449;
C_{12}H_{24}O_5N_2
                 H. 42, 290 C. 1904 [2] 958).
              2) r-Kaseinsäure. Sm. 246°. Cu (B. 37, 1597 C. 1904 [1] 1449; H. 42,
bis 218° (C. r. 136, 1079 C. 1903 [1] 1305).
             *1) Amid d. Laurinsäure. Sm. 98-99 6 (Bl. [3] 29, 1209 C. 1904 [1] 355).
C_{12}H_{25}ON
              3) \varepsilon-Oximidomethyl-\beta\zeta-Dimethylnonan. Sd. 153^{\circ}_{20} (Bl. [3] 31, 307
                  C. 1904 [1] 1133).
             *1) \beta-Semicarbazonundekan. Sm. 122° (Soc. 81, 1588 C. 1903 [1] 29, 162;
C_{12}H_{25}ON_{3}
                 Bl. [3] 29, 676 C. 1903 [2] 487).
             *2) β-Semicarbazon-δ-Methyldekan. Sm. 66° (Bl. [3] 31, 1158 C. 1904
                  [2] 1708).
              3) α-Semicarbazonundekan. Sm. 103° (Bl. [3] 29, 1205 C. 1904 [1] 355).
                 C_{58,3} - H_{10,1} - O_{25,9} - N_{5,7} - M.G.'_{247}
C_{12}H_{25}O_4N
              1) \beta-Diäthylamidoformiat d. \alpha\beta\gamma-Trioxypropan-\alpha\gamma-Diäthyläther.
              Sd. 260—262° (Bl. [3] 31, 691 C. 1904 [2] 198).

1) αα-Di[Isoamylsulfon]äthan. Sm. 130° (B. 36, 298 C. 1903 [1] 499).
C_{12}H_{26}O_4S_2
              C 51,8 — H 9,3 — O 28,8 — N 10,1 — M. G. 278.

1) Diamidotrioxyundekancarbonsäure. Sm. 255° u. Zers. Cu (II. 42,
C<sub>12</sub>H<sub>26</sub>O<sub>5</sub>N<sub>2</sub>
                 540 C. 1904 [2] 1417).
C_{12}H_{26}O_6S_3
               2) \beta\beta s-Triäthylsulfonhexan. Sm. 125-130° (B. 37, 508 C. 1904 [1] 883).
C_{12}H_{26}NJ
               5) Jodmethylat d. Dihydro-β-Dimethylamidocampholen.
                                                                                  Sm. 270°
                 u. Zers. (C. r. 136, 1461 C. 1903 [2] 287).
C_{12}H_{27}ON
               3) Methylhydroxyd d. Dihydro-\beta-Dimethylamidocampholen (C. r. 136,
                 1461 C. 1903 [2] 287).
C12H27O3B
             *1) Triisobutylester d. Borsäure. Sd. 212° (B. 36, 2221 C. 1903 [2] 420).
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1) Tetrapropylammoniumchlorid. 2 + PtCl₄ (C. 1904 [1] 923).

C₁₂H₈₀N₈P

 Tri[Isobutylamido] phosphin. Fl. (A. 326, 151 C. 1903 [1] 760).
 Tri[Diäthylamido] phosphin. Sd. 245—246° u. ger. Zers. (A. 326, 169 C. 1903 [1] 762).

— 12 IV —

 $C_{12}H_4O_5N_8Cl_3$

- 1) 2,3,5-oder-2,3,6-Trichlor-4-[2,4-Dinitrophenyl]imido-1-Keto-1,4-Dihydrobenzol. Sm. 211° (B. 36, 3268 C. 1903 [2] 1126; B. 37, 1727 C. 1904 [1] 1520).
- 2) 3,5,2-Trichor-4-[2,4-Dinitrophenyl]imido-1-Keto-1,4-Dihydrobenzol. Sm. 216° (B. 36, 3265 C. 1903 [2] 1126).

C₁₂H₅ONCl₄

1) 2, 3, 5-Trichlor-4-[4-Chlorphenyl]imido-1-Keto-1, 4-Dihydrobenzol. Sm. 153° (C. 1898 [2] 36). - *III, 258.

C₁₂H₅O₅N₈Cl₂

1) 2,6-Diketo-4-[2,4-Dinitrophenyl]imido-1-Keto-1,4-Dihydrobenzol. Sm. 219—220° (B. 36, 3262 C. 1903 [2] 1126). 1) 2', 4'-Dichlor-2, 4, ?, ?-Tetranitrodiphenylamin. Sm. 198° (B. 36, 34)

C₁₂H₅O₈N₅Cl₂

C. 1903 [1] 521). 1) 4-Brom-2, 2', 4', 6'-Tetranitrodiphenyläther. Sm. 232° (Am. 29,

 $C_{12}H_5O_9N_4Br$ C12H6O2N3Cl3

215 C. 1903 [1] 964). 1) 2,4,6-Trichlor-2'-Nitroazobenzol. Sm. 143° (B. 36, 3820 C. 1904 [1] 18).

 $C_{12}H_6O_3N_2S$

 $C_{12}H_6O_5N_3Cl_8$

 Nitroindophenin (B. 37, 3349 C. 1904 [2] 1058).
 2,3,5-oder-2,3,6-Trichlor-2',4'-Dinitro-4-Oxydiphenylamin. Sm. 211° (B. 36, 3269 C. 1903 [2] 1126). 1) 3-Brom-?-Dinitro-4, 4'-Dioxybiphenyl. Zers. bei 241° (A. 333,

 $C_{12}H_6O_6N_2Br_2$

364 C. **1904** [2] 1117). *1) 4,4'-Bidiazobiphenýl-2,2'-Disulfonsäure $+ 2H_2O$ (J. pr. [2] 66,

 $C_{12}H_6O_6N_4S_2$ $C_{12}H_6O_6N_6S_2$

572 C. 1903 [1] 519).
Diazoderivat d. 2, 2'-Diamidoazobenzol-4, 4'-Disulfonsäure 1) Diazoderivat d.

 $C_{19}H_8O_7N_4Cl_2$

- $+ 2 H_2 O (A. 330, 21 C. 1904 [1] 1139).$ 1) 3,5-Dichlor-2,2',4'-Trinitro-4-Oxydiphenylamin. Sm. 235 ° (B. 37,
- 1730 C. 1904 [1] 1521). 2) 3,5-Dichlor-2',4',6'-Trinitro-4-Oxydiphenylamin. Sm. 225°

 $C_{12}H_6O_7Br_2S$

(B. 37, 1730 C. 1904 [1] 1521). 1) ?-Dibromnaphtalin-1,8-Dicarbonsäure-?-Sulfonsäure. Sm. 204

C₁₉H₈O₈N₅Cl

bis 205°. Ba + 8 H₂O (C. 1903 [2] 725). 1) 4'-Chlor-2', 4', P, P-Tetranitrodiphenylamin. Sm. 182—183° (B. 36, 33 C. 1903 [1] 520).

 $C_{12}H_7ONS$ C₁₂H₇O₂N₂Br

- *1) Indophenin (B. 37, 2463 C. 1904 [2] 368. 1) 3-Brom-7,8-Dioximidoacenaphten (A. 327, 88 C. 1903 [1] 1228).
- 2) 4,5,6-Trinitro-2-Nitrodiphenylamin. Sm. 138-1390 (Am. 30, $C_{12}H_7O_2N_2Br_3$ 77 C. 1903 [2] 356). 2) 2,4-Dichlor-2'-Nitroazobenzol. Sm. 155,5° (B. 36, 3820 C. 1904

C₁₂H₇O₂N₃Cl₂

[1] 18). 1) Indopheninsulfonsäure. Ba (B. 37, 2464 Anm. C. 1904 [2] 368).

C₁₂H₇O₄NS₂ $C_{12}H_7O_4N_8Cl_2$

2) 2',4'-Dichlor-2,4-Dinitrodiphenylamin. Sm. 166° (B. 36, 33 C. 1903 [1] 521).

C₁₂H₇O₅N₃Cl₂

1) 3,5-Dichlor-2',4'-Dinitro-4-Oxydiphenylamin. Sm. 207° (B. 36, 3264 C. 1903 [2] 1126). *3) 4'-Chlor-2,4,6-Trinitrodiphenylamin. Sm. 170° (J. pr. [2] 67,

C, H, O, N, Cl

- 469 C. 1903 [1] 1422).
- 4) 2'-Chlor-2, 4, 4'-Trinitrodiphenylamin. Sm. 165-166° (B. 36, 32) C. 1903 [1] 520).
- 5) 3'-Chlor-2, 4, P-Trinitrodiphenylamin. Sm. 209° (?) (B. 36, 33 C. 1903 [1] 520).

C₁₂H₇O₇N₄Cl

- 1) 5-Chlor-2,2',4'-Trinitro-4-Oxydiphenylamin. Sm. 252° u. Zers. (B. 37, 1728 C. 1904 [1] 1520).
- 2) 5-Chlor-3,2',4'-Trinitro-4-Oxydiphenylamin. Sm. 232° (B. 37,
- 1729 C. 1904 [1] 1520). 3) 3-Chlor-2',4',6'-Trinitro-4-Oxydiphenylamin. Sm. 185,5° (B. 37,
- 1728 C. 1904 [1] 1520). 4) 2-Chlor-2',4',9-Trinitro-4-Oxydiphenylamin. Sm. 232,5° (B. 37, 1729 C. 1904 [1] 1521).

$\mathbf{C_{12}H_8ON_2Cl_2}$	4) 2,2'-Dichlorazoxybenzol. Sm. 56° (J. pr. [2] 67; 148 C. 1903 [1] 870).
$\mathbf{C_{12}H_8ON_2Br_2}$	5) Phenazin-N-Oxydibromid. Sm. 132—133°. HBr (B. 36, 4141 C. 1904 [1] 185).
$\mathbf{C_{12}H_8ON_9Cl}$	2) $2 - 4 - Chlorphenyl] - 1, 1 - Dihydro - 2, 1, 3 - Benztriazol - 1 - Oxyd.$
	Sm. 155,5—156,5° (B. 36, 3826 C. 1904 [1] 19). 3) 7-Chlor-3-Amido-2-Oxy-5,10-Naphtdiazin. HCl, HNO ₃ (B. 36, 4030 C. 1904 [1] 294).
$\mathrm{C_{12}H_8ON_8Br}$	1) 2-[4-Bromphenyl] - 1,1 - Dihydro - 2,1,3 - Benztriazol - 1 - Oxyd. Sm. 162—162,5° (B. 36, 3825 C. 1904 [1] 18).
	2) 7-Brom-3-Amido-2-Oxy-5,10-Naphtdiazin (B. 36, 4032 C. 1904 [1] 294).
$\mathbf{C_{12}H_8O_2N_3Cl}$	4) 4-Chlor-2'-Nitroazobenzol. Sm. 145-146° (B. 36, 3819 C. 1904 [1] 18).
$\mathbf{C_{12}H_8O_2N_3Br}$	5) 4-Brom-2'-Nitroazobenzol. Sm. 152,5° (B. 36, 3820 C. 1904 [1] 18).
$\mathrm{C_{12}H_8O_4NBr}$	1) Acetat d. 6-Brom-1-Nitro-2-Oxynaphtalin. Sm. 115—1170 (A. 333, 370 C. 1904 [2] 1117).
$\mathbf{C_{12}H_8O_4N_2S_2}$	*1) 2,2'-Dinitrodiphenyldisulfid. Sm. 195° (J. pr. [2] 66, 553 C. 1903 [1] 508).
	*3) 4,4'-Dinitrodiphenyldisulfid. Sm. 181° (J. pr. [2] 66, 551 C. 1903 [1] 508).
$\mathrm{C_{12}H_8O_4N_3Cl}$	2) 2'-Chlor-2,4-Dinitrodiphenylamin. Sm. 148—149° (B. 36, 32 C. 1903 [1] 520).
	3) 3'-Chlor-2,4-Dinitrodiphenylamin. Sm. 182—183° (B. 36, 33 C. 1903 [1] 520).
	4) 4'-Chlor-2,4-Dinitrodiphenylamin. Sm. 165° (B. 36, 33 U. 1903
$\mathrm{C_{12}H_8O_4N_3Br}$	4) 4-Brom-2,5-Dinitrodiphenylamin. Sm. 153—154° (Am. 28, 463 C. 1903 [1] 323).
$\mathrm{C_{12}H_8O_4Cl_2S_3}$	*1) Chlorid d. Diphenylsulfid-4,4'-Disulfonsäure. Sm. 159° (R. 22,
	351 C. 1904 [1] 22; R. 22, 357 C. 1904 [1] 22). 2) Chlorid d. Diphenylsulfid-2, 2'-Disulfonsäure. Sm. 94-95° (95 bis 96°) (R. 22, 352 C. 1904 [1] 22; R. 22, 365 C. 1904 [1] 23).
$\mathbf{C_{12}H_8O_5N_3C1}$	*3) 3-Chlor-2',4'-Dinitro-4-Oxydiphenylamin, Sm. 1830 (B. 36, 3267)
	0. 1903 [2] 1126; B. 37, 1517 U. 1904 [1] 1596). 5) 2-Chlor-2',4'-Dinitro-4-Oxydiphenylamin. Sm. 189* (B. 36, 3266).
	C. 1903 [2] 1126; B. 37, 1516 C. 1904 [1] 1596). 6) 3-Chlor-2', 4'-Dinitro-4-Amidodiphenyläther. Sm. 137° (B. 37,
$\mathbf{C_{12}H_8O_5N_3Br}$	1517 C. 1904 [1] 1596). 1) 2-Brom-2', 4'-Dinitro-4-Oxydiphenylamin. Sm. 178—179° (B. 36,
$\mathrm{C_{12}H_8O_6Cl_2S_8}$	3269 C. 1903 [2] 1126). 2) Chlorid d. Diphenylsulfon-2, 2'-Disulfonsäure. Sm. 147—1489
	(R. 22, 302 C. 1904 [1] 22; R. 22, 365 C. 1904 [1] 23). 3) Chlorid d. Diphenylsulfon-4, 4'-Disulfonsäure. Su. 217-220
C ₁₂ H ₈ O ₁₀ N ₄ S ₂	u. Zers. (R. 22, 351 U. 1904 [1] 22; R. 22, 363 U. 1904 [1] 23). *1) 2,2'-Dinitroazobenzol-4,4'-Disulfonsäure $+2H_2$ 0. Na ₂ $+2H_2$ 0,
$C_{12}H_8ClBr_2J$	1) Di[3-Bromphenyl]jodoniumchlorid. Sm. 207 $^{\circ}$ 2 $+$ Pt(3), (L ₂₀₇)
$\mathrm{C_{12}H_8Cl_2BrJ}$	[2] 69, 326 C. 1904 [2] 35). 2) Di[3-Chlorphenyl]jodoniumbromid. Sm. 155° (B. 37, 1315 C. 1904
$C_{12}H_9ONS_2$	[1] 1541). 2) 2-Thiocarbonyl-4-Keto-5-Cinnamylidentetrahydrothiagol. Sm
$\mathrm{C_{12}H_{9}ON_{2}Br}$	208—211° u. Zers. (M. 23, 967 C. 1903 [1] 284). *2) 3-Brom-4'-Oxyazobenzol. Sm. 139—140° (B. 36, 3867 C. 1904
$C_{12}H_9ON_2J$	[1] 92). 2) 4-Jodosoazobenzol. Sm. 105° (B. 37, 1312 C. 1904 [1] 1341).
C ₁₂ H ₉ OCl ₂ J	2) Di[3-Chlorphenyl]jodoniumhydroxyd. Salze siehe (B. 37, 1315).
$C_{12}H_9OBr_2J$	1) Di[3-Bromphenyl]jodoniumhydroxyd. Salze siehe (J. pr. [2] 69, 326 C. 1904 [2] 35).
$C_{12}H_9O_2NS$	4) 2,4-Diketo-5-Cinnamylidentetrahydrothiazol. Sm. 214—216° (M. 23, 971 C. 1903 [1] 284).

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$\mathbf{C_{12}H_9O_2N_2Cl}$	3) 4-Chlor-2-Nitrodiphenylamin. Sm. 61° (A. 332, 93 C. 1904 [1] 1571).
$\begin{array}{c} \mathbf{C}_{12}\mathbf{H}_9\mathbf{O}_2\mathbf{N}_2\mathbf{J} \\ \mathbf{C}_{12}\mathbf{H}_9\mathbf{O}_3\mathbf{N}\mathbf{S}_2 \end{array}$	2) 4-Jódoazobenzol. Zers. bei 189° (B. 37, 1313 C. 1904 [1] 1341). 1) 2-Thiocarbonyl-4-Keto-5-[2-Acetoxylbenzyliden]tetrahydro-
	thiazol. Sm. 168° (M. 23, 962 C. 1903 [1] 284). 2) 3,4-Methylenäther d. 2-Thiocarbonyl-4-Keto-5-[3,4-Dioxybenzyliden]-3-Methyltetrahydrothiazol. Sm. 204° (M. 25, 172 C. 1904 [1] 895).
$C_{12}H_9O_4NS$	5) 2,4-Diketo-5-[2-Acetoxylbenzyliden] tetrahydrothiazol. Sm. 1710 (M. 23, 966 C. 1903 [1] 284).
$C_{12}H_9O_6NS$	*1) 2-Nitro-1-Oxybenzolphenyläther-4-Sulfonsäure (D.R.P. 156156 C. 1904 [2] 1674).
$C_{12}H_9O_7N_9S$	*2) 2,4-Dinitrodiphenylamin-4'-Sulfonsäure (D.R.P. 152406 C. 1904 [2] 273).
$C_{12}H_9O_8N_8S$	2) 2',4'-Dinitro-4-Oxydiphenylamin-2-Sulfonsäure (D.R.P. 143494 C. 1903 [2] 405).
$\mathbf{C}_{12}\mathbf{H}_{0}\mathbf{N}_{2}\mathbf{Cl}_{2}\mathbf{J}$	1) Azobenzol-4-Jodidehlorid. Sm. 100° u. Zers. (B. 37, 1311 C. 1904 [1] 1341).
$\mathrm{C}_{12}\mathrm{H_9ClBrJ}$	1) 3-Chlordiphenyljodoniumbromid. Sm. 164° (B. 37, 1316 C. 1904 [1] 1341).
	2) 3-Bromdiphenyljodoniumchlorid. Sm. 191°. + HgCl ₂ , 2 + PtCl ₄ (J. pr. [2] 69, 327 C. 1904 [2] 35).
C ₁₂ H ₁₀ ONCl	6) Pyridin + Benzoylchlorid (C. r. 136, 1555 C. 1903 [2] 359). 7) 1-Naphtylchloramid d. Essigsäure. Sm. 75° (Am. 29, 308 C. 1903 [1] 1166).
$\mathbf{C_{12}H_{10}ONBr_{8}}$	8) 2-Naphtylamid d. Chloressigsäure. Sm. 117—118° (C. 1903 [2] 110). 1) 3,5-Dibrom-4-Oxy-I-Brommethylbenzol + Pyridin. Sm. 186
$\mathbf{C_{12}H_{10}ONP}$	bis 190° u. Zers. (B. 36, 1884 C. 1903 [2] 291). 2) Anhydrid d. Diphenylamidophosphinsäure + H ₂ O. Sm. 224° (A. 326, 222 C. 1903 [1] 866).
$egin{array}{l} { m C_{12}H_{10}ON_2Br_2} \ { m C_{12}H_{10}ON_2S} \end{array}$	1) Azoxybenzoldibromid (B. 36, 4140 C. 1904 [1] 185). 3) 2-Imido-4-Keto-5-Cinnamylidentetrahydrothiazol. Zers. bei 235 (M. 23, 971 C. 1903 [1] 284).
$C_{12}H_{10}ON_3Cl$	(M. 363, 871 C. 1903 [1] 2049. 1) 3,9-Diamidophenoxazoniumchlorid $+$ H ₂ O. 2 $+$ PtCl ₄ (B. 36, 479 C. 1903 [1] 651).
$C_{12}H_{10}OClJ$	1) 3-Chlordiphenyljodoniumhydroxyd. Salze siehe (B. 37, 1316 C. 1904 [1] 1341).
$\mathrm{C_{12}H_{10}OBrJ}$	 3-Bromdiphenyljodoniumhydroxyd. Salze siehe (J. pr. [2] 69, 327 C. 1904 [2] 35).
$-C_{12}H_{10}O_{3}N_{2}S$	2) 2 - Imido - 4 - Keto - 5 - [2 - Acetoxylbenzyliden]tetrahydrothiazol. Sm. 223—228° u. Zers. (M. 23, 964 C. 1903 [1] 284).
$\mathbf{C}_{12}\mathbf{H}_{10}\mathbf{O}_{8}\mathbf{N}_{2}\mathbf{S}_{2}$	2) 2-Thiocarbonyl-4-Keto-5-[3-Nitrobenzyliden]-3-Aethyltetra- hydrothiazol. Sm. 188° (M. 25, 176 C. 1904 [1] 895).
$\mathbf{C}_{12}\mathbf{H}_{10}\mathbf{O}_4\mathbf{N}_2\mathbf{S}$	*6) 4-Oxyazobenzol-4'-Sulfonsäure (C. 1903 [1] 325). *9) Phenylamid d. 3-Nitrobenzol-1-Sulfonsäure. Sm. 126° (Soc. 85, 1187 C. 1904 [2] 1115).
	13) 2-Oxyazobenzol-5-Sulfonsäure. Na (B. 36, 2978 C. 1903 [2] 1031).
$C_{12}H_{10}O_6N_2S_2$	*4) Azobenzol-4,4'-Disulfonsäure. Na, K ₂ + 21/4H ₂ O (J. pr. [2] 66, 554 C. 1903 [1] 508; A. 330, 21 C. 1904 [1] 1139).
$C_{12}H_{10}O_7N_4S$	2) 2, 4'-Dinitro - 4 - Amidodiphenylamin - 2-oder - 3 - Sulfonsäure (D.R.P. 147862 C. 1904 [1] 235).
$egin{array}{ll} \mathbf{C_{12}H_{11}ONS} \\ \mathbf{C_{12}H_{11}ONS}_2 \end{array}$	 4-Amidodiphenylsulfoxyd. Sm. 152° (B. 36, 113 C. 1903 [1] 454). 2-Thiocarbonyl-4-Keto - 5 - Benzyliden - 3 - Aethyltetrahydrothiazol. Sm. 149° (M. 25, 174 C. 1904 [1] 895).
$\mathbf{C_{12}H_{11}ON_{2}P}$	2) Phenylimid-Phenylamid d. Phosphorsäure. Sm. 225—226° (Soc. 83, 1048 C. 1903 [2] 663).
$\mathrm{C_{12}H_{11}ON_4Cl}$	1) 3,7,9-Triamidophenoxazoniumchlorid (B. 36, 483 C. 1903 [1] 652).
$\mathrm{C_{12}H_{11}O_2NBr_2}$	6) Phenylimid d. $\alpha\beta$ -Dibrombutan- $\alpha\beta$ -Dicarbonsäure. Sm. 164–165° (B. 37, 2383 C. 1904 [2] 306).
$C_{12}H_{11}O_2NS$	*3) Phenylamid d. Benzolsulfonsäure. Sm. 108,5—109 (B. 36, 2706) C. 1903 [2] 829).
$\mathrm{C_{12}H_{11}O_{2}NS_{2}}$	2) 2-Thiocarbonyl-4-Keto-5-[2-Oxybenzyliden]-3-Aethyltetra- hydrothiazol. Sm. 190° (M. 25, 174 C. 1904 [1] 895).

$\mathbf{C}_{12}\mathbf{H}_{11}\mathbf{O}_{2}\mathbf{NS}_{2}$	3) Methyläther d. 2-Thiocarbonyl-4-Keto-5-[4-Oxybenzyliden]-3- Methyltetrahydrothiazol. Sm. 181° (M. 25, 170 C. 1904 [1] 895)
$C_{12}H_{11}O_8NS_2$	1) 5 ³ Methyläther d. 2-Thiocarbonyl-4-Keto-5-[3,4-Dioxybenzyliden]-3-Methyltetrahydrothiazol. Sm. 199 ⁶ (M. 25, 171 C. 1904 [1] 895).
$C_{12}H_{11}O_4NS$	[1] 050. 6) 2-Amidodiphenyläther-4-Sulfonsäure (D.R.P. 156156 C. 1904 [2] 1674).
$egin{array}{l} \mathbf{C_{12}H_{11}O_5NS_2} \\ \mathbf{C_{12}H_{11}O_6N_8S} \end{array}$	*1) Oxyimid d. Benzolsulfonsäure (G. 33 [2] 310 C. 1904 [1] 288). 1) 4'-Nitro-2'-Amido-4-Oxydiphenylamin-3-Sulfonsäure (D.R.P. 139679 C. 1903 [1] 748).
$\mathbf{C_{12}H_{11}O_6N_3S_2}$	*1) Diazoamidobenzol-4,4'-Disulfonsäure. Ba (Bl. [3] 31, 642 C. 1904 [2] 96).
	4) Diazoamidobenzol-2, 2'-Disulfonsäure (Bl. [3] 31, 642 C. 1904 [2] 96).
	5) Diazoamidobenzol-3, 3'-Disulfonsäure (Bl. 3 31, 642 C. 1904 [2] 96).
$\mathbf{C_{12}H_{12}ONCl}$	5) Methyläther d. 1-Chlor-4-Oxy-8-Aethylisochinolin. Sm. 55,5° (B. 37, 1693 C. 1904 [1] 1525).
$C_{12}H_{12}ONBr$	3) 4-Methyläther d. Brom-4-Oxyphenylat d. Pyridin FeCl ₃ (J. pr. [2] 70, 49 C. 1904 [2] 1236).
$\mathbf{C_{12}H_{12}ON_{2}Br_{2}}$	1) 6,8-Dibrom-4-Keto-2-Isobutyl-3,4-Dihydro-1,3-Benzdiazin. Sm. 230-231,5° (C. 1903 [2] 1195).
$\mathbf{C_{12}H_{12}ON_5Cl}$	1) 3,5,7,9-Tetraamidophenoxazoniumchlorid (B. 36, 481 C. 1903 [1] 651).
$\mathbf{C_{12}H_{12}O_{2}NCl_{8}}$	2) 2, 4, 6-Trichlorphenylester d. Hexah, Tropper dir -1-Carbonsäure. Sm. 75°; Sd. 227° ₂₅ (Bl. [3] 29, 752 C. 1003 [3]
$C_{12}\mathbf{H}_{12}O_2\mathbf{NBr}$	5) Aethyläther d. 5-Brom-6-Oxy-2-Keto-1-Methyl-1,2-Dihydrochinolin. Sm. 136-137° (B. 36, 461 C. 1903 [1] 590).
$\mathbf{C_{12}H_{12}O_{2}NBr_{3}}$	1) 2, 4, 6 - Tribromphenylester d. Hexahydropyridin-1- Carbonsäure. Sm. 60-61°; Sd. 218° ₄₀ (Bl. [3] 29, 753 C. 1903 [2] 629).
$\mathbf{C_{12}H_{12}O_{2}NJ}$	*1) Jodäthylat d. Chinolin-4-Carbonsäure. Sm. 200—203 (M. 24, 201 C. 1903 [2] 48).
$\mathbf{C_{12}H_{12}O_{2}N_{2}S}$	7) Verbindung (aus Dicyanbenzoylaceton). Sm. 182° u. Zers. (A. 332, 158 C. 1904 [2] 192).
$\mathbf{C_{12}H_{12}O_{3}NP}$	3) Phenylmonamid d. Phosphorsäuremonophenylester. Sm. 134°. Ag (A. 326, 225 C. 1903 [1] 866).
$\mathbf{C_{12}H_{12}O_{3}N_{4}S_{3}}$	1) 1.3 - Di [Thioureïdo] naphtalin - 6 - Sulfonsäure (D.R.P. 139 429 C. 1903 [1] 904).
$\mathrm{C_{12}H_{12}O_{3}ClBr_{8}}$	1) α-Acetat d. 2,5-Dibrom-3,4-Dioxy-1-[α-Chlor-β-Brompropyl]-
$\mathbf{C_{12}H_{12}O_4NCl_8}$	benzol-3-Methyläther. Sm. 97—98° (A. 329, 30 C. 1903 [2] 1436). 3) Diäthylester d. 2,3,5-Trichlorpyridin-4-Malonsäure. Sm. 63
$\mathbf{C_{12}H_{12}O_4N_2S_8}$	bis 64°. K (Soc. 83, 398 C. 1903 [1] 840, 1141). 1) Amid d. Diphenylsulfid-4,4'-Disulfonsäure. Sm. 195° (R. 22, 359 C. 1904 [1] 23).
$\mathbf{C_{12}H_{12}O_6N_2S_2}$	*1) 4,4'-Diamidobiphenyl-2,2'-Disulfonsaure (J. pr. 2 66, 560)
	C. 1903 [1] 518). *3) s-Diphenylhydrazin-3, 3'-Disulfonsäure (J. pr. [2] 66, 559 C. 1903
	[1] 518). *5) s-Diphenylhydrazin-4,4'-Disulfonsäure. K ₂ (J. pr. [2] 66, 555
$\mathbf{C}_{12}\mathbf{H}_{12}\mathbf{O}_{6}\mathbf{N}_{4}\mathbf{S}_{2}$	2) $2,2'$ -Diamidoazobenzol- $4,4'$ -Disulfonsäure ± 2 H. () Δu (4.330)
$\mathbf{C_{12}H_{13}ONBr_{2}}$	2) 8, ? - Dibrom - 5 - Acetylamido - 1 2 3 4 - Metrobydronomhtalin
$\mathbf{C_{12}H_{18}ON_{2}Cl_{3}}$	1) P-Trichlorphenylamid d. Hexahydronyyidin I Carbona iyya
$\mathbf{C_{12}H_{13}ON_{2}Br_{8}}$	1) 9-Tribromphenylamid d. Heyahydronymidin J. Garbana i and
$C_{12}H_{18}ON_8S$	1) 5-Merkapto-3-Keto-4-Allyl-1-Bengyltatnoh-dag 1 9 4 miles
	2) 5-Merkapto - 4 - Allyl-1-Benzyltetrahydro - 1 2 4 Unional 2 5
$\mathbf{C_{12}H_{18}O_{2}N_{2}Cl}$	Oxyd. Sm. 108° (B. 37, 2335 C. 1904 [2] 314). 1) Lakton d. δ-Oxy-α-[4-Methylphenyl]hydrazon-γ-Oxyvaleriansäure. Sm. 210° (C. r. 137, 15 C. 1903 [2] 508).
	,

 $C_{12}H_{13}O_3NS$ 11) 1-Aethylamidonaphtalin-2-Sulfonsäure. Sm. 207—208°. K (R. 23, 185 C. 1904 [2] 228) $\mathbf{C}_{12}\mathbf{H}_{18}\mathbf{O}_{8}\mathbf{N}_{2}\mathbf{Br}$ 3) Aethyläther d. 3-Brom-5-Nitro-2-Oxy-1-Methyl-1,2-Dihydrochinolin. Sm. 111° u. Zers. (J. pr. [2] 39, 309; [2] 45, 185). IV, 265. $C_{12}H_{13}O_3ClBr_2$ 1) 4-Acetat d. 5-Brom-3, 4-Dioxy-1- $[\alpha$ -Chlor- β -Brompropyl] benzol-3-Methyläther. Sm. 111-112° (A. 329, 21 C. 1903 [2] 1435). 4-Nitrobenzoat d. β-Brom-γ-Oximido-β-Methylbutan. Sm. 105°
 (B. 37, 540 C. 1904 [1] 865). $C_{12}H_{13}O_4N_2Br$ $\mathbf{C}_{12}\mathbf{H}_{13}\mathbf{O}_{5}\mathbf{N}_{2}\mathbf{Br}$ 2) Acetylderivat d. Verb. $C_{10}H_{11}O_4N_2Br$. Sm. 242° (B. 31, 926). — *II, 1121. Aethylester d. α-[4-Chlorphenylthiosulfon] acetessigsäure.
 Sm. 56-57° (J. pr. [2] 70, 387 C. 1904 [2] 1720). $C_{12}H_{18}O_5ClS_2$ $C_{12}H_{13}O_5BrS$ 1) $\alpha \gamma$ -Sulton d. β -Brom- α -Oxy- α -Phenylbutan- γ -Sulfonsäure- δ -Carbonsäuremethylester. Sm. 148° (Am. 31, 255 C. 1904 [1] 1081). Aethylester d. α-[4-Bromphenylthiosulfon]acetessigsäure. Sm. 70—71° (J. pr. [2] 70, 388 C. 1904 [2] 1720). $C_{12}H_{18}O_5BrS_2$ 1) Aethylester d. a-[4-Jodphenylthiosulfon]acetessigsäure. Sm. 90 $C_{12}H_{13}O_5JS_2$ bis 91° (J. pr. [2] 70, 389 C. 1904 [2] 1720). *5) 8-Brom-5-Aethylamido-1,2,3,4-Tetrahydronaphtalin. Sm. 180 C19H,4ONBr bis 181° (Soc. 85, 745 C. 1904 [2] 447).
6) 5-Brom-6-Acetylamido-1,2,3,4-Tetrahydronaphtalin. Sm. 125,5° (Soc. 85, 730 C. 1904 [2] 116, 338).
7) 8-Brom-6-Acetylamido-1, 2, 3, 4-Tetrahydronaphtalin. Sm. 151° (Soc. 85, 730 C. 1904 [2] 116, 338). 6) Jodäthylat d. 6-Oxychinolin-6-Methyläther + H₂O. C₁₂H₁₄ONJ wasserfrei (B. 36, 1175 C. 1903 [1] 1364).
*1) Verbindung (aus s-Dichlormethyläther + 2 Molec. Pyridin). + PtCl. C₁₂H₁₄ON₂Cl₂ + 2 AuCl₃ (A. 330, 116 C. 1904 [1] 1063; A. 334, 35 C. 1904 [2] $C_{12}H_{14}O_2NCl$ 8) Aethyl-4-Propionylchloramidophenylketon. Sm. 80° (C. 1903) [1] 1223). C,2H,4O,NBr 5) Aethyl-4-Propionylbromamidophenylketon, Sm. 120° (C. 1903) [1] 1223). 6) Brommethylat d. 6-Dimethylamido-1, 2-Benzpyron. Sm. 229 ° (Soc. 85, 1237 C. 1904 [2] 1124). 7) 2 - Bromphenylester d. Hexahydropyridin - 1 - Carbonsäure. Sm. 63° (Bl. [3] 29, 752 C. 1903 [2] 629). 8) 4-Bromphenylester d. Hexahydropyridin-l-Carbonsäure. Sm. 66-67°; Sd. 245°₅₂ (Bl. [3] 29, 753 C. 1903 [2] 629). 9) Benzoat d. β -Brom - γ -Oximido - β -Methylbutan. Sm. 70 - 71° (B. 37, 540 C. 1904 [1] 865). $C_{12}H_{14}O_2NJ$ 3) Jodmethylat d. 6-Dimethylamido-1, 2-Benzpyron. 207° u. Zers. (Soc. 85, 1237 C. 1904 [2] 1124). 1) 5-Aethylsulfon-3-Methyl-1-Phenylpyrazol. Sm. 61-62° (A. 331, $\mathbf{C}_{12}\mathbf{H}_{14}\mathbf{O}_{2}\mathbf{N}_{2}\mathbf{S}$ 235 C. 1904 [1] 1221). 2) 5-Methylsulfon-3,4-Dimethyl-1-Phenylpyrazol. Sm. 137° (A. 331, 242 C. 1904 [1] 1221). $C_{12}H_{14}O_2N_4S$ 1) α - [3 - Nitrobenzyliden] amido - α - Methyl - β - Allylthioharnstoff. Sm. 132° (B. 37, 2321 C. 1904 [2] 311). 2) 1 - Ureïdo - 2 - Thiocarbonyl - 4 - Keto - 5 - Dimethyl - 3 - Phenyltetrahydroimidazol. Sm. 1910 u. Zers. (C. 1904 [2] 1027). 3) 4 - Chlorphenylmonamid d. Propan - β β - Dicarbonsäuremonomethylester. Sm. 90—91° (Soc. 83, 1247 C. 1903 [2] 1421). $C_{12}H_{14}O_3NCl$ 7) α -[α -Brompropionyl]amido- β -Phenylpropionsäure. Sm. 132- $C_{12}H_{14}O_3NBr$ (B. 37, 3312 C. 1904 [2] 1306). 2) Methylthiopyrintrioxyd. Sm. 305° u. Zers. (A. 331, 219 C. 1904 $C_{12}H_{14}O_8N_2S$ [1] 1219). 3) Aethylthiopyrintrioxyd. Sm. 257° u. Zers. (A. 331, 210 C. 1904

*3) Aldehydd. 6-Brom-3, 4,5-Trioxy-1- $[\beta$ -Methylamidoäthyl] benzol-

Sm. 135° (B. 36, 1534 C. 1903 [2] 52).

3-Methyläther-4, 5-Methylenäther-2-Carbonsäure (Bromcotarnin).

[1] 1219).

C,2H,4O4NBr

12 14.	
$\mathbf{C_{12}H_{14}O_4Cl_4S_2}$	 1) 1,3-Di[βγ-Dichlorpropylsulfon]benzol (J. pr. [2] 68, 322 C. 1903 [2] 1170).
$C_{12}H_{14}O_4Br_4S_2$	1) 1,3-Di[$\beta\gamma$ -Dibrompropylsulfon] benzol. Fl. (<i>J. pr.</i> [2] 68, 323 <i>G.</i> 1903 [2] 1171).
$\mathbf{C_{12}H_{14}O_{6}N_{4}S_{2}}$	3) 2,2-Diamido-s-Diphenylhydrazin-4,4'-Disulfonsäure. Na ₂ + 2 H ₂ O (A. 330, 22 U. 1904 [1] 1139).
$C_{12}H_{14}O_8N_2S$	1) β-[5-Nitro-2-Methylphenylsulfon]amidopropan-αγ-Dicarbonsäure. Sm. 158-159°. Ba (H. 43, 70 C. 1904 2) 1607)
$\mathbf{C_{12}H_{14}N_{2}ClJ}$	4) Jodnethylat d. 5-Chlor-3-Methyl-1-[2-Methylphenyl]pyrazol. Sm. 231—232 (B. 37, 222) C. 1904 (2 228).
$egin{array}{l} { m C_{12}H_{14}N_2Cl_2S} \\ { m C_{12}H_{14}N_2Cl_2Hg} \end{array}$	 Methylthiopyridindichlorid (A. 331, 220 C. 1904 [1] 1219). Verbindung (aus Quecksilberacetamid u. salzs. Anilin) (M. 23, 1158 C. 1903 [1] 385).
$egin{array}{l} { m C_{12}H_{14}N_2Br_2S} \ { m C_{12}H_{15}ON_2Cl} \end{array}$	1) Methylthiopyrindibromid. Sm. 111° (A. 331, 221 C. 1904 [1] 1219). 4) Methylhydroxyd d. 5-Chlor-3-Methyl-1-[2-Methylphenyl]-
	pyrazol. Salze siehe (B. 37, 2229 C. 1904 [2] 228). 5) 3-Chlorphenylamid d. Hexahydropyridin-l-Carbonsäure. Sm. 149,5° (Bl. [3] 31, 22 C. 1904 [1] 521).
$ ext{C}_{12} ext{H}_{15} ext{ON}_2 ext{Br}$	173—174° (Bl. [3] 31, 22 C. 1904 [1] 521). 1) Brommethylytisin. (2HCl, 1tCl ₄), (HCl, AuCl ₉), HJ (Ar. 235,
0121115011211	384). — *111, 654.
	157° (Bl. [3] 31, 22 C. 1904 [1] 521). 3) 4-Bromphenylamid d. Hexahydropyridin-1-Carbonsäure. Sm.
$\mathbf{C_{12}H_{15}O_{2}N_{2}Br}$	188° (Bl. [3] 31, 23 C. 1904 [1] 521). 3) Phenylamidoformiat d. β-Brom-γ-Oximido-β-Methylbutan. Sm.
$C_{12}H_{15}O_3N_2Br$	 88-89° (B. 37, 541 C. 1904 [1] 865). 4-Bromphenylmonohydrazid d. Propan-ββ-Dicarbonsäuremonomethylester. Sm. 96° (Soc. 83, 1252 C. 1903 [2] 1422).
$\mathbf{C}_{12}\mathbf{H}_{15}\mathbf{O}_4\mathbf{NS}$	1) Acetyl-4-Aethoxylphenylamid d. Aethensulfonsäure. Sm. 70° (B. 36, 3631 C. 1903 [2] 1327).
$\rm C_{12}H_{15}O_{5}N_{2}Cl$	1) 4-Chlorbenzoylhydrazon d. 1-Arabinose. Zers. bei 203° (C. 1904) [2] 1493).
$\mathbf{C_{12}H_{15}O_5N_2Br}$	4) 4-Brombenzoylhydrazon d. 1-Arabinose. Zers. bei 215—216° (C. 1904 2 1493).
	5) 4-Brombenzoylhydrazon d. d-Xylose. Zers. bei 258—260° (C. 1904 [2] 1493).
C ₁₂ H ₁₅ O ₇ N ₂ Cl	1) Triäthyläther d. 6-Chlor-2,4-Dinitro-1,3,5-Trioxybenzol. Sm. 76° (B. 85, 3856 C. 1903 [1] 21; Am. 31, 377 C. 1904 [1] 1408).
$C_{12}H_{16}ONCl$	5) ϵ -Chlor- α -Benzoylamidopentan. Sm. 66° (B. 37, 2916° C. 1904 [2] 1237).
	 Nitrosochlorid d. δ-Phenyl-β-Methyl-β-Penten. Sm. 140° (B. 37, 2307 C. 1904 [2] 215).
	 Nitrosochlorid d. α-Phenyl-γ-Methyl-β-Penten. Sm. 140—141° L. Zers. (B. 37, 2317 C. 1904 [2] 217).
C II OT T	6) Nitrosochlorid d. α-Phenyl-β-Aethyl-α-Buten. Sm. 99° (B. 37, 1724 C. 1904 [1] 1515).
C ₁₂ H ₁₆ ON ₃ Br	1) β -Brom- α -Semicarbazon- α -[4-Methylphenyl]butan. Sm. 2320 (<i>C. r.</i> 133, 1218 <i>C.</i> 1902 [1] 299). — *III, 124.
$C_{12}H_{16}O_4NBr$	 *1) Acetat d. π-Brom-α-Isonitresocampher. Sm. 171° (Soc. 83, 967 C. 1903 [1] 1411 C. 1903 [2 (91)]. 3) Acetat d. β-Bromcamphoryloxim. Sm. 112° (Soc. 83, 967 C. 1903 [1] 1411 C. 1903 [2 (91)].
$\rm C_{12}H_{16}O_4Br_2S_2$	[1] 1411 C. 1903 [2] 666). 1) 1.3-Di[θ- oder α-Brompronylsulfon] hengel Sm. 744 (1 m. 191
$C_{12}H_{16}O_6N_2S_2$	1) 1,3-Di[β -Oximidopropylsulfon] benzol. Sm. 198—1999 (I_{cor} [9]
$\mathbf{C_{12}H_{17}ON_3S_2}$	1) Dimethyläther d. a-Dimerkantomethylenamida - A-A-a-thyllathyl
$\mathrm{C_{12}H_{17}O_{4}NS}$	*3) r-α-Phenylsulfonamido-γ-Methylvaleriansäure. Sm. 145—146° (Bl. [3] 31, 1182 C. 1904 [2] 1710).
	5) Phenylsulfon-d-Isoleucin. Sm. 149—150° (B. 37, 1828 C. 1904 [1] 1645).

2) 4-Bromphenylhydrazon d. Rhamnose. Sm. 167° u. Zers. (Soc. 83, C₁₂H₁₇O₄N₂Br 1288 C. 1904 [1] 86). C₁₂H₁₈O₂NCl₃ 1) Chloralcampheroxim $+ 2H_2O$. Sm. 82° u. Zers. (D.R.P. 66879; Am. 21, 474). — *III, 366. $C_{12}H_{18}O_7N_9S$ *1) Phenylsulfonhydrazon d. d-Glykose (C. 1904 [2] 1494). $C_{12}H_{19}O_2N_2CI$ 2) Chlormethylat d. Isopilocarpin. 2 + PtCl₄ (Soc. 77, 853). -*III, 685. Methylamid d. γ-Oxy-γ-Phenylpentan-γ²-Sulfonsäure. Sm. 111 bis 112° (B. 37, 3265 C. 1904 [2] 1031). $C_{12}H_{19}O_{3}NS$ $C_{12}H_{19}O_8N_8S$ 1) 2-Thiocarbonyl-4-Keto-5-Dimethyl-3-Allyltetrahydroimidazol-1-α-Amidoisobuttersäure. Sm. 121° (C. 1904 [2] 1028). 1) Aethylester d. Bromdihydrocampholensulfocarbonsäure. C12H19O5BrS 100-101° (C. 1903 [2] 38; Soc. 83, 1111 C. 1903 [2] 794). $C_{12}H_{20}O_8NP$ 1) 2, 4-Dimethylphenylmonamid d. Phosphorsäurediäthylester. Sm. 96° (A. 326, 240 C. 1903 [1] 868). $C_{12}H_{21}O_4N_2Br$ 1) Aethylester d. α-Bromisocapronylamidoacetylamidoessigsäure. Sm. 124-125° (123-124°) (B. 36, 2988 C. 1903 [2] 1112; B. 37, 3071 C. 1904 [2] 1208). 1) α -[α -Bromisocapronyl]amidoisocapronsäure. Sm. 188—189 ° C12H22O2NBr (B. 37, 2492 C. 1904 [2] 424). 4) Jodmethylat d. 1-Methyltetrahydropyrrol-2,2-Dicarbonsäure. Sm. 98° (A. 326, 127 C. 1903 [1] 844). $C_{12}H_{22}O_4NJ$ 1) Jodmethylat d. ε -Dimethylamido- $\beta \varepsilon$ -Dimethyl- β -Hexen- γ -Carbonsäureamid. Sm. 184° (B. 36, 3363 C. 1903 [2] 1186). $C_{12}H_{25}ON_2J$ C₁₉H₂₅ON₂P 1) Aethyläther d. Di[1-Piperidyl]oxyphosphin. Sd. 152-154027 (A. 326, 166 C. 1903 [1] 762). Dipiperidid d. Phosphorsäuremonoäthylester. Sd. 176-180°₂₀
 (A. 326, 166 C. 1903 [1] 762; A. 326, 196 C. 1903 [1] 820). $C_{12}H_{25}O_{2}N_{2}P$ 2) Chlormethylat d. 3,4,4,6-Tetramethyl-2-Isopropyltetrahydro-1,3-Oxazin. + AuCl₈ (M. 25, 858 C. 1904 [2] 1241). $C_{12}H_{26}ONCl$ Di [Jodmethylat] d. Aethylenbismorpholin. Zers. bei 262° (B. 35, 4473 C. 1903 [1] 404).
 Aethylmonamid-1,1-Dipiperidid d. Thiophosphorsäure. Sm. 95° $C_{12}H_{26}O_2N_2J_2$ $C_{12}H_{26}N_8SP$ (A. 326, 203 C. 1903 [1] 821). $C_{12}H_{27}O_{8}NS$ 1) α -Isoamylamidoheptan- α -Sulfonsäure. Na (C. 1904 [2] 945). C₁₂H₂₈O₈NP 1) Diisobutylmonamid d. Phosphorsäurediäthylester. Fl. (A. 326, 186 C. 1903 [1] 820). 1) Tri[Diäthylamid] d. Phosphorsäure. Fl. (A. 326, 200 C. 1903 C12H80ON8P [1] 821). 2) Tri Isobutylamid] d. Phosphorsäure. Sm. 46-47° (A. 326, 177

C. 1903 [1] 819). 1) trim. Phosphinodiäthylamin. Sm. 103° (A. 326, 190 C. 1903 [1] $C_{12}H_{30}O_6N_3P_3$ 820).

C19H30N3SP

1) Tri [Diäthylamid] d. Thiophosphorsäure. Fl. (A. 326, 218 C. 1903 [1] 822).

2) Tri[Isobutylamid] d. Thiophosphorsäure. Sm. 78,5° (A. 326, 208 *C.* **1903** [1] 821).

- 12 V -

 $C_{19}H_4O_4N_9Cl_4S_2$ 1) Di[4,5-Dichlor-2-Nitrophenyl] disulfid. Sm. 233° u. Zers. (R. 21, 422 C. 1903 [1] 504).

C₁₉H₈O₄N₂Br₂S₂ 2) Di[5-Brom-2-Nitrophenyl]disulfid. Sm. 1840 (R. 21, 422 C. 1903

[1] 504). $C_{12}H_6O_6N_2Br_4S_2*1)~2,4,2',4'-Tetrabromazobenzol-5,5'-Disulfonsäure.~Na_2~+~4H_2O_6N_2Br_4S_2*1)~2,4,2',4'-Tetrabromazobenzol-5,5'-Disulfonsäure.~Na_2~+~4H_2O_6N_2Br_4S_2*1)~2,4,2',4'-Tetrabromazobenzol-5,5'-Disulfonsäure.~Na_2~+~4H_2O_6N_2Br_4S_2*1)~2,4,2',4'-Tetrabromazobenzol-5,5'-Disulfonsäure.~Na_2~+~4H_2O_6N_2Br_4S_2*1)~2,4,2',4'-Tetrabromazobenzol-5,5'-Disulfonsäure.~Na_2~+~4H_2O_6N_2Br_4S_2*1)~2,4,2',4'-Tetrabromazobenzol-5,5'-Disulfonsäure.~Na_2~+~4H_2O_6N_2Br_4S_2*1)~2,4,2',4'-Tetrabromazobenzol-5,5'-Disulfonsäure.~Na_2~+~4H_2O_6N_2Br_4S_2*1)~2,4,2',4'-Tetrabromazobenzol-5,5'-Disulfonsäure.~Na_2~+~4H_2O_6N_2Br_4S_2*1)~2,4,2'-Tetrabromazobenzol-5,5'-Disulfonsäure.~Na_2~+~4H_2O_6N_2Br_4S_2*1)~2,4,2'-Tetrabromazobenzol-5,5'-Disulfonsäure.~Na_2~+~4H_2O_6N_2Br_4S_2*1)~2,4,2'-Tetrabromazobenzol-5,5'-Disulfonsäure.~Na_2~+~4H_2O_6N_2Br_4S_2*1)~2,4,2'-Tetrabromazobenzol-5,5'-Disulfonsäure.~Na_2~+~4H_2O_6N_2Br_4S_2*1)~2,4,2'-Tetrabromazobenzol-5,5'-Disulfonsäure.~Na_2~+~4H_2O_6N_2Br_4S_2*1,4'-Tetrabromazobenzol-5,5'-Disulfonsäure.~Na_2~+~4H_2O_6N_2Br_4S_2*1,4'-Tetrabromazobenzol-5,5'-Disulfonsaure.~Na_2~+~4H_2O_6N_2Br_4S_2*1,4'-Tetrabromazobenzol-5,5'-Disulfonsaure.~Na_2~+~4H_2O_6N_2Br_4S_2*1,4'-Tetrabromazobenzol-5,5'-Disulfonsaure.~Na_2~+~4H_2O_6N_2Br_4S_2*1,4'-Tetrabromazobenzol-5,5'-Disulfonsaure.~Na_2~+~4H_2O_6N_2Br_4S_2*1,4'-Tetrabromazobenzol-5,5'-Disulfonsaure.~Na_2~+~4H_2O_6N_2Br_4S_2*1,4'-Tetrabromazobenzol-5,5'-Disulfonsaure.~Na_2~+~4H_2O_6N_2Br_4S_2*1,4'-Tetrabromazobenzol-5,5'-Disulfonsaure.~Na_2~+~4H_2O_6N_2Br_4S_2*1,4'-Tetrabromazobenzol-5,5'-Disulfonsaure.~Na_2~+~4H_2O_6N_2Br_4S_2*1,4'-Tetrabromazobenzol-5,5'-Disulfonsaure.~Na_2~+~4H_2O_6N_2Br_4S_2*1,4'-Tetrabromazobenzol-5,5'-Disulfonsaure.~Na_2~+~4H_2O_6N_2Br_4S_2*1,4'-Tetrabromazobenzol-5,5'-Disulfonsaure.~Na_2~+~4H_2O_6N_2Br_4S_2*1,4'-Tetrabromazobenzol-5,5'-Disulfonsaure.~Na_2~+~4H_2O_6N_2Br_4S_2*1,4'-Tetrabromazobenzol-5,5'-Disulfonsaure.~Na_2~+~4'-Tetrabromazobenzol-5,5'-Disulfonsaure.~Na_2~+~5'-Disulfonsaure.~Na_2~+~5'-$ (A. 330, 24 C. 1904 [1] 1140).

*2) 2,6,2',6'-Tetrabromazobenzol-4,4'-Disulfonsäure. $Na_2 + 2H_2O$ (A. 330, 38 C. 1904 [1] 1141).

1) 2, 4-Dichlorphenylchloramid d. Benzolsulfonsäure. Sm. 89° (Soc. 85, 1185 C. 1904 [2] 1115). C₁₂H₈O₂NCl₈S

1) 2, 4-Dichlorphenylamid d. Benzolsulfonsäure. Sm. 1280 (Soc. C19H9O9NCl2S 85, 1185 C. 1904 [2] 1115).

2) 4-Chlorphenylchloramid d. Benzolsulfonsäure. Sm. 97° (Soc. 85, 1184 C. 1904 [2] 1115).

C₁₂H₂₅ON₂SP

2) Phenylchloramid d. 3-Nitrobenzol-1-Sulfonsäure. Sm. 1060 C12H9O4N2CIS (Soc. 85, 1187 C. 1904 [2] 1115). *3) 2-Chlorphenylamid d. Benzolsulfonsäure. Sm. 1270 (B. 37, 2811 $C_{12}H_{10}O_2NC1S$

C. 1904 [2] 593).

5) Phenylchloramid d. Benzolsulfonsäure. Sm. 61° (Soc. 85, 1183 C. 1904 [2] 1115).
Phenylamid d. 4-Jodbenzol-1-Sulfonsäure. Sm. 143° (A. 332,

 $C_{12}H_{10}O_2NJS$ 58 C. 1904 [2] 41).

 $C_{12}H_{11}O_2NC1P$ 1) Phenylmonamid d. Phenylphosphorsäuremonochlorid. Sm. 1370 (A. 326, 224 C. 1903 [1] 866).

245 C. 1903 [1] 868).

C₁₂H₁₈ONBrJ 1) Jodmethylat d. 5-Brom-6-Oxychinolinäthyläther. Sm. 215° u. Zers, (B. 36, 460 C. 1903 [1] 590).

1) 5-Methylsulfon-3,4-Dimethyl-1-[4-Bromphenyl]pyrazol. Sm.

 $C_{12}H_{13}O_2N_2BrS$

178° (A. 331, 243 C. 1904 [1] 1221).

1) Jodmethylat d. 4-Brom-5-Merkapto-3-Methyl-1-Phenylpyrazol. C₁₂H₁₄N₂BrJS Sm. 179° (A. 331, 230 C. 1904 [1] 1220).

 Jodmethylat d. 5-Methylsulfon-3-Methyl-1-Phenylpyrazol. Sm. 194° (A. 331, 229 C. 1904 [1] 1220).
 Aethylphenylmonamid d. Thiophosphorsäurediäthylester. Fl. $C_{12}H_{15}O_2N_2JS$

C₁₂H₂₀O₂NSP A. 326, 258 C. 1903 [1] 869).

1) 1,1-Dipiperidid d. Thiophosphorsäuremonoäthylester. Sci. 198 bis 210°₂₂ (A. 326, 166 C. 1903 [1] 762; A. 326, 217 C. 1903 [1] 822).

C₁₂H₂₈O₂NSP 1) Diamylmonamid d. Thiophosphorsäuredimethylester. Sd. 118 bis 121°₁₈ (A. 326, 213 C. 1903 [1] 822).

C₁₃-Gruppe.

C13H10 $C_{18}H_{12}$

*1) Fluoren. Sm. 113,5—114,5° (B. 36, 878 C. 1903 [1] 972).
*1) Diphenylmethan (J. pr. [2] 67, 128 C. 1903 [1] 872; C. 1903 [2] 1415).
3) Kohlenwasserstoff (aus 1-Oxy-1-Benzylhexahydrobenzol). Sd. 138°₂₀ (C. r. 138, 1323 C. 1904 [2] 219; C. r. 139, 345 C. 1904 [2] 705). C18H16

4) Kohlenwasserstoff (aus 1-Oxy-1-p-Methylphenylhexahydrobenzol). Sd. 142°_{20} (C. r. 138, 1323 C. 1904 [2] 219).

C13H18

*2) α -[4-Isopropylphenyl]- β -Methylpropen. Sd. 235—236 $^{\circ}_{745}$ (M. 22, 257 C. 1903 [2] 243). 11) γ -Phenyl- β -Methyl- β -Hexen. Sd. 210—212 $^{\circ}_{755}$ (B. 37, 1726 C. 1904 [1]

12) α -Phenyl- γ -Methyl- β -Hexen. Sd. 116 $^{\circ}_{16}$ (B. 37, 2313 C. 1904 [2] 216). 13) α-[3-Methyl-6-Isopropylphenyl]propen. Sd. 226—228° (B. 36, 2237 C. 1903 [2] 438).

14) α -[2,4,6-Trimethylphenyl]- β -Methylpropen. Sd. 226—227° (B. 37, 929 C. 1904 [1] 1209).

C13 H20 14) 2-Isobutyl-1, 3, 5-Trimethylbenzol. Sd. 228—230°₇₄₅ (B. 37, 1719 C. 1904 [1] 1489).

C, H22 2) Hexahydrobenzylidenhexahydrobenzol. Sd. 133°₂₀ (C. r. 139, 346) C. 1904 [2] 705). C18H24

2) Di[Hexahydrophenyl]methan. Krystalle; Sd. 251,5% (C. 1903 [2] 989). 3-Isopropyl-9-Methylbicyklo-[1,3,3]-Nonan. Sd. 232—233% (B. 37, 1670 C. 1904 [1] 1606).

- 13 II —

C13H6O5 C 64,5 - H 2,5 - O 33,0 - M. G. 242.

1) Anhydrid d. Naphtalin-1,4,8-Tricarbonsäure. Sm. 243° (A. 327, 95 C. 1903 [1] 1228).

*1) $\alpha \alpha$, 2, 5, 2', 5'-Hexachlordiphenylmethan (Am. 30, 398 C. 1904 [1] 284). C13H6Cl6 C18H8O9 *6) Xanthon (C. r. 136, 1007 C. 1903 [1] 1266). 14) 3-Oxy-1-Ketofluoren. Sm. 225° (B. 35, 4279 C. 1903 [1] 333).

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C13 H8 O2
                   15) α-Naphtocumarin (1,2-α-Naphtopyron). Sm. 141-142° (B. 36, 1967)
                         C. 1903 [2] 376).
                   9) 2,3-Dioxyxanthon. Sm. 294° (B. 37, 2736 C. 1904 [2] 542). 3) Naphtalin-1,4,8-Tricarbonsäure. Ag. (A. 327, 95 C. 1903 [1] 1228). *2) \alpha\alpha,4,4'-Tetrachlordiphenylmethan. Sm. 52—53°; Sd. 223°<sub>18</sub> (Am. 30,
C18H8O4
\mathbf{C}_{13}\mathbf{H}_{8}\mathbf{O}_{6}
C_{13}H_8Cl_4
                        398 C. 1904 [1] 284).
                    3) \alpha \alpha, 2, 4'-Tetrachlordiphenylmethan.
                                                                                     Sd. 223 <sup>0</sup><sub>28</sub> (Am. 30, 397
                        C. 1904 [1] 284).
\mathbf{C}_{18}\mathbf{H}_{8}\mathbf{Br}_{9}
                   *2) \beta-Dibromfluoren. Sm. 158° (163°) (B. 11, 170; B. 37, 3029 C. 1904
                        [2] 1225).
                    1) 9-Chlorfluoren. Sm. 90° (B. 37, 2896 C. 1904 [2] 1310).
3) α, 4, 4'-Tribromdiphenylmethan. Sm. 106—107° (Am. 30, 449)
C13H9C1
C_{13}H_9Br_3
                        C. 1904 [1] 376).
                  *1) 9-Oxyfluoren. Sm. 153° (B. 37, 2895 C. 1904 [2] 1310).

*6) Diphenylketon. + FeCl<sub>s</sub> (R. 22, 316 C. 1903 [2] 203; Bl. [3] 29, 1131 C. 1904 [1] 284; Am. 31, 258 C. 1904 [1] 1078; B. 37, 2531 C. 1904
C18H10
C13 H10 O2
                  *5) 4-Oxydiphenylketon. Sm. 134° (C. 1904 [2] 1697).
                  *7) 1-Phenylbenzol-2-Carbonsäure. Sm. 113,5-114,5°. Cu (B. 36, 881
                        C. 1903 [1] 973).
                 18) 2-Benzyl-1,4-Benzochinon. Sm. 43° (B. 37, 3487 C. 1904 [2] 1301).
*6) 2,4'-Dioxydiphenylketon. Sm. 144° (B. 36, 3901 C. 1904 [1] 94).
*9) 4,4'-Dioxydiphenylketon. Sm. 208-210° (B. 36, 3899 C. 1904 [1] 94).
*14) 2-Oxbenzolphenyläther-1-Carbonsäure. Sm. 113° (C. r. 136, 1075
C13H10O3
                        C. 1903 [1] 1362; B. 37, 854 C. 1904 [1] 1259).
                  26) γ-Keto-αε-Di[2-Furanyl]-αδ-Pentadiën (G. 27 [2] 274). — *III, 521. 27) 2,3-Dioxyxanthen. Sm. 173—175° (B. 37, 2734 C. 1904 [2] 542). 28) 2-Oxy-1-Phenylbenzol-3-Carbonsäure. Sm. 180° (D.R.P. 61125).
                          - *II, 993.
                  29) Aldehyd d. 2-Acetoxylnaphtalin-l-Carbonsäure. Sm. 87° (Bl. [3] 29,
                        879 C. 1903 [2] 885).
                  30) Verbindung (aus 1,2,3-Trioxybenzol u. Benzaldehyd). Sm. oberh. 300° (B. 37, 1179 C. 1904 [1] 1162).
                  31) Verbindung (aus Resorcin u. Salicylaldehyd (B. 37, 2737 C. 1904 [2] 542).
C18H10O4
                 *12) Monobenzoat d. Maltol. Sm. 115° (B. 36, 3408 C. 1903 [2] 1281).
                 *16) \alpha \delta-Di[2-Furanyl]-\alpha \gamma-Butadiën-\beta-Carbonsäure. Sm. 213°.
                  (Soc. 85, 191 C. 1904 [1] 644, 925).
15) 2,3,4,3'-Tetraoxydiphenylketon. Sm. 133° (D.R.P. 49149, 50451).
C15H10O5
                           *III, 158.
                  16) 2,3,4,4'-Tetraoxydiphenylketon. Sm. noch nicht bei 200° (D.R.P.
                        49149, 50451). — *III, 158.
                  17) 3,4,3',4'-Tetraoxydiphenylketon.
                                                                               Sm. 227—228° (D.R.P. 72446).
                  — *III, 158.
13) 2,3,4,2',4'-Pentaoxydiphenylketon. Sm. 168—170° (D.R.P. 49149, 50451). — *III, 158.
C13H10O6
                  14) 3, 4, 5, 2', 4'-Pentaoxydiphenylketon. Sm. oberh. 200° (D.R.P. 49149,
                  50451). — *III, 158.
15) Diacetat d. 7,8-Dioxy-1,4-Benzpyron.
                                                                                            Sm. 110° (B. 36, 129

C. 1903 [1] 468).
2) 2,3,4,2',3',4'-Hexaoxydiphenylketon. Sm. 238° (D.R.P. 49149,

C18H10O7
                        50451). - *III, 159.
                    3) 2, 3, 4, 3', 4', 5'-Hexaoxydiphenylketon. Sm. oberh. 270° (D. R. P. 49149,
                        50451). — *III, 159.
                  *1) Sordidin (A. 327, 324 C. 1903 [2] 508).

*8) 2-Phenylindazol. (2 HCl, PtCl<sub>4</sub>), Pikrat (C. r. 136, 1137 C. 1903 [1] 1416; Bl. [3] 29, 746 C. 1903 [2] 628).
C18H10O8
C_{13}H_{10}N_2
                 *10) 2-Phenylbenzimidazol. Sm. 290-2920 (C. 1903 [2] 204).
                  22) Azodiphenylmethan. Sm. 76° (C. r. 136, 1137 C. 1903 [1] 1416).
                  4) 4,4'-Dibromdiphenylmethan. Sm. 64° (Am. 30, 449 C. 1904 [1] 376).
*6) α-Phenyl-β-[2-Pyridyl]äthen (B. 36, 119 C. 1903 [1] 469).
14) α-Phenyl-α-[2-Pyridyl]äthen. Sd. 292—295° u. Zers. (2HCl, PtCl<sub>4</sub>),
C_{18}H_{10}Br_2
C,3H,1N
                  Pikrat (J. pr. [2] 69, 313 C. 1904 [1] 1613).
15) α-Phenyl-α-[4-Pyridyl]äthen. Sd. 300—305° (J. pr. [2] 69, 318
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C. 1904 [1] 1614).

16) 1-Methylcarbazol. Sm. 120,5°. Pikrat (A. 332, 86 C. 1904 [1] 1569).
17) 3-Methylcarbazol. Sm. 203°. Pikrat (A. 332, 89 C. 1904 [1] 1569). $C_{13}H_{11}N$ Sm. 98,5° (B. 36, 3827 13) 6-Methyl-2-Phenyl-2,1,3-Benztriazol. C₁₈H₁₁N₃ C. 1904 [1] 19). 14) Diphenylmethylazid (Benzhydrylazid). Sm. 45°? (J. pr. [2] 67, 165 C. 1903 [1] 873). *1) α -Chlordiphenylmethan. Sm. 14° (*J. pr.* [2] 67, 129 *C.* 1903 [1] 872). *1) α -Oxydiphenylmethan (*B.* 36, 2816 *C.* 1903 [2] 1127; *B.* 36, 2823 *C.* 1903 [2] 1128; *Soc.* 85, 791 *C.* 1904 [2] 529). *3) 4-Oxydiphenylmethan. Sm. 84° (*G.* 33 [2] 456 *C.* 1904 [1] 654; C13H11C1 $C_{13}H_{12}O$ A. 334, 373 C. 1904 [2] 1050). *6) Phenyläther d. Oxymethylbenzol. Sm. 39° (B. 36, 2063 C. 1903 [2] 357). *10) Methyläther d. 2-Oxybiphenyl. Sm. 29 (B. 36, 4080 C. 1904 [1] 268). 25) 2,5-Dioxydiphenylmethan (Benzylhydrochinon). Sm. 105°; Sd. 230°; sd. 230°; C₁₈H₁₂O₂ (B. 37, 3487 C. 1904 [2] 1301). 26) Methyläther d. 2-Oxydiphenyläther. Sm. 77° (Am. 29, 128 C. 1903 [1] 705). 27) Methyläther d. Methyl-4-Oxy-1-Naphtylketon. Sm. 71-72°; Sd. oberh. 350° (B. 23, 1208). — III, 174; *III, 141. 28) Aldehyd d. 2-Oxynaphtalinäthyläther-1-Carbonsäure. Sm. 109* (115°) (C. r. 133, 44; B. 36, 1975 C. 1903 [2] 378). — *III, 70. 22) 2-Oxynaphtalinäthyläther-1-Carbonsäure. Sm. 1426 (C. r. 136, 618 C18H12O3 C. 1903 [1] 881; Bl. [3] 31, 33 C. 1904 [1] 519). 23) Anhydrid d. α -Phenyl- α -Buten- δ -Carbonsäure- γ -Methylcarbonsäure. Sm. 138° (B. 36, 2339 C. 1903 [2] 438). 24) Methylester d. 2-Oxynaphtalinmethyläther-1-Carbonsäure. Sm. 52° (B. 37, 3661 C. 1904 [2] 1453). 25) Methylester d. 3-Oxynaphtalinmethyläther-2-Carbonsäure. Sm. 49" (B. 37, 3661 C. 1904 [2] 1453). C18H12O4 26) Methylbenzoat d. 1,4-Pyron. Sm. 98,5-99° (B. 37, 3749 (J. 1904) [2] 1539). 9) Methylderivat d. Verb. $C_{12}H_{10}O_5$. Sm. 135° (M. 22, 589). — *III, 310. *2) Formaldehydphloroglucid (Methylenbisphloroglucin). Sm. 225° u. Zers. $C_{18}H_{12}O_5$ C13H12O6 (A. 329, 269 C. 1904 [1] 795). 9) Di[P-Trioxyphenyl]methan (aus 1,2,4-Trioxybenzol). Sm. 227- 2300 (B. 37, 1176 C. 1904 [1] 1161) 10) 1,3,5-Trimethylbenzol-2,4-Di[Ketocarbonsäure] $+2H_y$ (). Sm. 100°. K, Ba. — *II, 1174. 11) I-Phenyl-R-Tetramethylen-2, 3, 4-Tricarbonsäure. Sm. 184° (B. 37, 2275 C. 1904 [2] 217). 12) Dilakton d. βz-Dioxy-δθ-Diketo-βι-Undekadiën-βη-Dicarbonsäure (Methylenbistriacetsäurelakton). Sm. 245° u. Zers. (B. 37, 3391 (J. 1904 [2] 1221). C18H12O7 9) Aldehyd d. 2,4,6-Triacetoxylbenzol-1-Carbonsäure. Sm. 122--123" (M. 24, 865 C. 1904 [1] 368). *1) Diphenylformamidin. Dibenzoat (B. 37, 3116 C. 1904 [2] 1316). C18H19N9 *7) stab. α -Phenyl- β -Benzylidenhydrazin. Sm. 158—160° (C. 1903 [2] 1432)*22) 1,2-Dimethyl-β-Naphtimidazol. Pikrat (Soc. 83, 1197 C. 1903 [2] 1445). 23) 2, N-Dimethyl- α - oder - β -Naphtimidazol. Fl. Pikrat (Soc. 83, 1193 C. 1903 [2] 1444). 24) Nitril d. α-[1-Naphtyl]amidopropionsäure. Sm. 104-105° (1), R.P. 144536 C. 1903 [2] 779). $C_{13}H_{12}J_{2}$ 3) Phenyl-3-Methylphenyljodoniumjodid. Sm. 165° (A. 327, 276 C. 1903 [2] 350). *4) a-Amidodiphenylmethan (B. 36, 704 C. 1903 [1] 818). $C_{13}H_{13}N$ *8) Methyldiphenylamin. Sd. 291° (A. 327, 113 C. 1903 [1] 1213).
21) α-Phenyl-β-[4-Pyridyl]äthan. Sm. 69—71°. (2HCl, PtCl₄), (HCl, AuCl₂), Pikrat (B. 37, 2148 C. 1904 [2] 235). *3) Phenylimido- β -Phenylhydrazidomethan. Sm. 109-109,5° (B. 36, C18H13N8

2481 C. 1903 [2] 559).

 $C_{13}H_{18}N_{9}$ *4) α -Phenyl- β -[2-Amidobenzyliden]hydrazin (B. 36, 4184 C. 1904 [1] 279). 24) α -Phenylhydrazon- α -Amido- α -Phenylmethan. HCl $+ \frac{1}{6}$ H₂O (B. 36, 2484 C. 1903 [2] 490). 25) 4-Phenylazo-2,6-Dimethylpyridin. Sm. 62-63°. (2HCl, PtCl₄), H₂Cr₂O₇, Pikrat (B. 36, 1119 C. 1903 [1] 1185). C18H14O9 10) 7-Oxy-4-Methylen-2,3,5-Trimethyl-1,4-Benzpyran. HCl + H₀O, Pikrat (B. 37, 1795 C. 1904 [1] 1612). *7) Aethylester d. Benzoylacetessigsäure. Cu (B. 37, 3395 C. 1904 C18H14O4 [2] 1221). 30) α -Phenyl- α -Buten- δ -Carbonsäure- γ -Methylcarbonsäure amenylglutarsäure). Sm. 135° (B. 36, 2339 C. 1903 [2] 438). 31) Dimethylester d. α -Phenylpropen- $\beta\gamma$ -Dicarbonsäure. (M. 24, 369 C. 1903 [2] 496). C19H14O5 *4) α-Keto-α-Phenylpentan-γγ-Dicarbonsäure. 2 + CHCl₃ (C. 1904) 11) β -Benzoylbutan- $\alpha\alpha$ -Dicarbonsäure. Sm. 140° u. Zers. (C. 1904 [1] 1258). 12) Monoacetat d. 3,5-Dioxy-2,4-Diacetyl-1-Methylbenzol. Sm. 75° (Soc. 85, 978 C. 1904 [2] 454, 711). 13) Verbindung (aus Harnstoff u. d. Verb. C₁₁H₈O₄). Zers. bei 200° (Soc. 83, 189 C. 1903 [1] 670). 27) Lakton d. l-Benzylidengulonsäure. Sm. 174° (R. 19, 180). — *III, 7. C13H14O6 28) Diacetat d. Methyl-2,3,4-Trioxyphenylketonmonomethyläther. Sm. 146-148° (Soc. 83, 132 C. 1903 [1] 89, 466). C,8H,4O, 10) 2,3,5-Triacetat d. 1,2,3,5-Tetraoxybenzol-1-Methyläther. Zers. bei 103-105° (M. 23, 956 C. 1903 [1] 286).
*17) uns-Phenylbenzylhydrazin. Sd. 216-218° (M. 25, 599 C. 1904 [2] C13H14N2 36) Diphenylmethylhydrazin (Benzhydrylhydrazin). Sm. 58 - 59°; Sd. 188°, HCl, HNO₂, HNO₃, Pikrat, Oxalat (J. pr. [2] 67, 125 C. 1903 [1] 872).

37) 3-Methyl-6-[β-Phenyläthenyl]-2,5-Dihydro-1,4-Diazin. Sd. 151°₁₀.

2HCl, (2HCl, PtCl₄) (M. 25, 1075 C. 1904 [2] 1659). C, H, N 17) 2-[oder 4]-Methyl-1, 2, 3, 4-Tetrahydrocarbazol. Sm. 98-99°. Pikrat (C. 1904 [2] 343). 6) 4-Phenylhydrazido-2,6-Dimethylpyridin. C18H15N8 Sm. 172-180°. HCl, (2HCl, PtCl₄) (B. 36, 1118 C. 1903 [1] 1185). *4) Benzoylhexahydrobenzol. Sm. 51° (C. r. 139, 345 C. 1904 [2] 705). C13H16O 6) 2,2-Diäthyl-1,2-Benzpyran. Sd. 126-127° (B. 37, 495 Č. 1904 [1] 805). *9) α-[4-Isopropylphenyl]propen-β-Carbonsäure. Sm. 90—91° (A. 330, 264 C. 1904 [1] 947).
*15) Diäthyläther d. γγ-Dioxy-α-Phenylpropin. Sd. 144—145° (C. r. 138, 1340 C. 1904 [2] 187). C13H16O2 22) Aethyläther d. α-Oxy-γ-Keto-α-Phenyl-α-Penten. Sd. 167—170°₁₈
 (C. r. 139, 209 C. 1904 [2] 649).
 23) Isobutylester d. β-Phenylakrylsäure. Sd. 164—165°₁₈₋₁₇ (Soc. 83, 673 C. 1903 [2] 115). 24) Acetat d. γ-[2-Oxyphenyl]-β-Penten. Sd. 132—134°₂₃ (Bl. [3] 29, 353 C. 1903 [1] 1222).
 25) Benzoat d. β-Oxy-α-oder-β-Hexen. Sd. 170—175°₅₀ (Soc. 83, 151 C. 1903 [1] 72, 436). C, H, O, 28) β -Oxy- α -Phenyl- α -Butenäthyläther- α -Carbonsäure. Sm. 92°. Cu (B. 36, 2248 C. 1903 [2] 436). 29) isom. β -Oxy- α -Phenyl- α -Butenäthyläther- α -Carbonsäure. Sm. 108°. Cu (B. 36, 2248 C. 1903 [2] 436). 30) isom. β -Oxy- α -Phenyl- α -Butenäthyläther- α -Carbonsäure. 92-93°. Cu (B. 36, 2248 C. 1903 [2] 436). 31) β -Oxy- α -Phenyl- β -Butenäthyläther- α -Carbonsäure + H₂O. 86—87°. Cu (B. 36, 2246 C. 1903 [2] 435). 32) Methylester d. α-[2-Aethoxylphenyl]propen-γ-Carbonsäure. (B. 37, 3988 C. 1904 [2] 1639).

33) Methylester d. α-[3-Aethoxylphenyl] propen-y-Carbonsäure. Sd. 175

bis 176°₁₄ (B. 37, 3989 C. 1904 [2] 1639).

34) Aethylester d. β -Oxy- β -Phenylakryläthyläthersäure. Sd. $167-168^{\circ}_{16}$

(C. r. 138, 208 C. 1904 [1] 659; Bl. [3] 31, 516 C. 1904 [1] 1602).

 $C_{13}H_{16}O_{3}$

 35) Aethylester d. β-Keto-α-Phenylbutan-α-Carbonsäure (Ac. d. Propionylphenylessigsäure). Sd. 154—156°₁₈ (B. 36, 2243 C. 1903 [2] 435).
 31) Trimethyläther d. γ-Keto-α-[2, 4, 5-Trioxyphenyl]-α-Buten. Sm. 96,5° (Ar. 242, 102 C. 1904 [1] 1008).
 32) Trimethyläther d. (Ac. d. 2004 [1] 1008). C19H16O4 32) Trimethyläther d. γ-Keto-α-[2,4,6-Trioxyphenyl]-α-Buten. Sm. 118—120° (M. 24, 870 C. 1904 [1] 368).
 33) Aethylester d. β-[3,4-Dioxyphenyl]akryl-3,4-Dioxyhenyl akryl-3,50°; Sd. 196—197°, (C. 1903 [1] 580; Soc. 85, ... 1904
 34) Aethylester d. β-(2,4,6-Trioxyphenyl)akryl-3,4-Dioxyhenyl akryl-3,4-Dioxyhenyl akryl-3,4-Dioxyhe 34) Aethylester d. isom. β -[2, 4-Dioxyphenyl]akryl-2, 4-Dimethyläthersäure. Sm. 61°; Sd. 208°₁₃ (C. 1903 [1] 580; Soc. 85, 162 äthersäure. Sm C. 1904 [1] 724). 15) Trimethyläther d. αγ-Diketo-α-[2,3,4-Trioxyphenyl]butan. Sm. 65°
 (B. 36, 2191 C. 1903 [2] 384). C18H16O5 (B. 50, 2191 C. 1803 [2] 504).
16) Trimethyläther d. αγ-Diketo-α-[2,4,6-Trioxyphenyl] butan. Sm. 94—95° (B. 37, 2100 C. 1904 [2] 122).
17) Methylester d. β-[2,4,6-Trioxyphenyl]akryltrimethyläthersäure. Sm. 134—135° (M. 24, 869 C. 1904 [1] 368).
*1) β-Pikroerythrin (Bl. [3] 31, 613 C. 1904 [2] 99).
9) Dimethylester d. 3 4 Dioxyphogoldingthyläther 1-Cerbonsäure. $C_{18}H_{18}O_6$ 9) Dimethylester d. 3,4-Dioxybenzoldimethyläther-1-Carbonsäure-2-Oxyessigsäure. Sm 84-87° (M. 25, 892 C. 1904 [2] 1313). C 47,0 — H 4,8 — O 48,2 — M. G. 332. 1) Glykogallin. Sm. 200° u. Zers. (C. 1903 [1] 883; C. r. 136, 386 C13H16O7 C18H16O10 C. 1903 [1] 722). 2) Pentamethylester d. Propen-ααβγγ-Pentacarbonsäure (P. d. Dicarboxyaconitsäure). Sm. 62°. Na, Methylaminsalz (A. 327, 233 C. 1903 [1] 1406). 8) 3-Propyl-5-Phenylpyrazol. Sm. 105° (C. r. 139, 296 C. 1904 [2] 710). $C_{13}H_{16}N_{2}$ 9) Nitril d. α-Phenyl-α-[1-Piperidyl]essigsäure. Sm. 62-63 (63-64) (B. 37, 4086 C. 1904 [2] 1724). 3) 2-Amido-6-Phenylamido-4-Methyl-5-Aethyl-1,3-Diazin. Sm. 158 $C_{13}H_{16}N_4$ bis 159° (B. 36, 1920 C. 1903 [2] 208).

*5) 1, 8, 3-Trimethyl-2-Aethyliden-2, 3-Dihydroindol. Sd. 257°, (HCl, AuCl₃) (G. 32 [2] 434 C. 1903 [1] 838).

*6) 2-Methylen-1, 3-Dimethyl-3-Aethyl-2, 3-Dihydroindol (G. 32 [2] 406 $C_{18}H_{17}N$ C. 1903 [1] 838). 21) Diallyl-2-Methylphenylamin. Sd. 229—232°. Pikrat (C. 1903 [2] 28). 22) Diallyl-3-Methylphenylamin. Sd. 245—249°. Pikrat (C. 1903 [2] 28). 23) Diallyl-4-Methylphenylamin. Sd. 252—257°. Pikrat (C. 1903 [2] 28). 24) 2 [oder 4]-Methylhexahydrocarbazol. Sm. 102-103°. (2 HCl, PtCl,) HBr, HJ (C. 1904 [2] 343). 2) 3-Methylimido-1, 4, 5-Trimethyl-2-Phenyl-2, 3-Dihydropyrazol.
 Pikrat (B. 36, 3289 C. 1903 [2] 1191). C13H17N8 3) 3-Aethylimido-1, 5-Dimethyl-2-Phenyl-2, 3-Dihydropyrazol. Pikrat (B. 36, 3287 C. 1903 [2] 1190). C18H18O 16) α -Oxybenzylhexahydrobenzol. Sm. 41°; Sd. 168° $_{20}$ (C. r. 139, 345) C. 1904 [2] 704). 17) 1-Oxy-1-Benzylhexahydrobenzol. Sm. 33°; Sd. 160° $_{20}$ (C. r. 138, 1322) C. 1904 [2] 219). 18) 1-Oxy-1-[4-Methylphenyl]hexahydrobenzol. Sm. 0°; Sd. 151° $_{20}$ (C. r. 138, 1322 C. 1904 [2] 219j. Aethyläther d. γ-[2-Oxyphenyl]-β-Penten. Sd. 121—122,5% (Bl. [3] 29, 354 C. 1903 [1] 1222).
 Isopropyl-2, 4, 6-Trimethylphenylketon. Sd. 142% (B. 37, 928) C. 1904 [1] 1209). $C_{18}H_{18}O_{2}$ *23) Aethyläther d. Propyl-6-Oxy-3-Methylphenylketon. Sd. 2050,000 (B. 36, 3892 C. 1904 [1] 93). 32) α -Oxyathyl-2-Methyl-5-Isopropylphenylketon. Sd. 153 0 ₁₅ (C. 1899) [1] 959). — *III, 125. 33) Aldehyd d. Oxymethyl-tert. Butylbenzolmethyläthercarbonsäure. Sm. 78°; Sd. 280—285° (D.R.P. 94019). — *III, 67.
 Aldehyd d. α-Oxy-α-[8-Aethoxylphenyl]-β-Methylpropan-β-Carbonsäure. Fl. (M. 24, 169 C. 1903 [1] 968). $C_{18}H_{18}O_{8}$

— 275 — 13 II.
 41) Aethylester d. β-Oxy-β-Phenyl-αα-Dimethylpropionsäure. Sm. 39°; Sd. 219°₁₂₀ (J. r. 28, 595). — *II, 937.
16) $\beta\beta$ -Dioxy- β -Phenylpropiondiäthyläthersäure. Sm. 68° (C. r. 138, 207 C. 1904 [1] 659).
17) Aethylester d. 2,4-Dioxybenzoldiäthyläthersäure. Fl. (<i>M.</i> 24, 893 <i>C.</i> 1904 [1] 512).
14) 4-Keto-1,3-Diacetyl-1,3-Di[Oxymethyl]-6-Methyl-1,2,3,4-Tetrahydrobenzol. Sm. 145° (B. 36, 2174 C. 1903 [2] 371).
15) Methylester d. 2,4,6-Trioxy-1,3-Dimethylbenzoltrimethyläther-5-Carbonsäure. Sm. 49—50°; Sd. 178—180° ₁₅ (M. 24, 107 C. 1903 [1] 966).
16) Aethylester d. 5-Oxy-1,4-Pyronamyläther-2-Carbonsäure (Ae. d. Komenamyläthersäure). Sm. 79-80° (G. 33 [2] 266 C. 1904 [1] 45).
11) Dimethylester d. 3-Keto-4-Oxy-1,1,2-Trimethyl-2,3-Dihydro-R-Penten-4-Methyläther-2,5-Dicarbonsäure. Sd. 167—168° ₁₂ (B. 36, 4335 C. 1904 [1] 456).
3) Säure (aus Cholesterin). $Cu_2 + 2H_2O$, Ag_3 (<i>M.</i> 24, 180 <i>C.</i> 1903 [2] 20). 3) $\beta\gamma$ -Dibrom- γ -Phenyl- β -Methylhexan. Fl. (<i>B.</i> 37, 1726 <i>C.</i> 1904 [1] 1516).
4) $\alpha\beta$ - Dibrom- α -[4-Isopropylphenyl]- β -Methylpropen (M. 24, 257 C. 1903 [2] 243).
5) $\alpha \beta$ -Dibrom- α -[2, 4, 6-Trimethylphenyl]- β -Methylpropan. Fl. (B. 37, 929 <i>C.</i> 1904 [1] 1209).
 Aucubin + H₂O (C. r. 138, 1115 C. 1904 [1] 1652). Phenyl-3-Methylhexahydrophenylamin. Sd. 175°₂₀ (C. r. 138, 1258 C. 1904 [2] 105).
14) d - 2 - [- Phenyläthyl]hexahydropyridin (d - Stilbazolin). d - Tartrat (B. 36, 3696 C. 1903 [2] 1382; B. 37, 3688 C. 1904 [2] 1508).
15) $1-2-[\beta-Phenyläthyl]$ hexahydropyridin. d-Tartrat $+$ H ₀ O (B. 36,
3696 C. 1903 [2] 1382; B. 37, 3688 C. 1904 [2] 1508). 16) Isostilbazolin. Sd. 156—1586 c. Tartrat, Camphersulfonat (B. 36, 3696 C. 1903 [2] 1382; B. 37, 3688 C. 1904 [2] 1508).
17) 1,3,3-Trimethyl-2-Aethyl-2,3-Dihydroindol. Sd. 141° ₂₁ . Pikrat (G. 32 [2] 438 C. 1903 [1] 838).
2) γ -Chlor- γ -Phenyl- β -Methylhexan. Fl. (B. 37, 1726 C. 1904 [1] 1516). 3) α -Chlor- α -[2, 4, 6-Trimethylphenyl]- β -Methylpropan. Fl. (B. 37, 929 C. 1904 [1] 1209).
*16) α -Jonon. Sd. 134,3° $_{16}$. + NaHSO ₃ + 1 1 / $_{2}$ H ₂ O, + KHSO ₃ (C. 1904) [1] 280, 282; D. R. P. 139959 C. 1903 [1] 858).
*17) β -Jonon. Sd. 140,4° ₁₈ . $+$ NaHSO ₈ $+$ 2H ₂ O, $+$ Ca(H ₂ SO ₈) ₂ $+$ 4H ₂ O (C. 1904 [1] 281, 282; D.R.P. 138100 C. 1903 [1] 304).
*18) Pseudojonon (D. R. P. 147839 C . 1904 [1] 128). 28) γ -Oxy- γ -Phenyl- β -Methylhexan. Sd. 230—232 $^{\circ}_{759}$ (B. 37, 1726 C . 1904 [1] 1515).
29) α -Oxy- α -[2,4,6-Trimethylphenyl]- β -Methylpropan. Sd. 149—150° ₁₉ . (B 37 928 C 1904 [1] 1209).
30) Isoamyläther d. 2-Methyl-1-Oxymethylbenzol. Sd. 124° ₁₅ (D.R.P. 154658 C. 1904 [2] 1355).
31) Isopropylidencampher. Sd. 200-204° ₇₅₈ (B. 35, 3911 C. 1903 [1] 29; B. 36, 2631 C. 1903 [2] 625).
29; B. 36, 2631 C. 1903 [2] 623). 32) Allylcampher. Sd. 130° ₂₀ (C. r. 136, 790 C. 1903 [1] 1086). 33) Camphenilidenaceton. Sd. 147—150° ₂₂ (D. R. P. 138211 C. 1903 [1] 269).
16) Propionylcampher (Oxypropylidencampher). Sd. 138,5° ₁₁ . Cu (B. 36, 2638 C. 1903 [2] 626; B. 37, 763 C. 1904 [1] 1085; B. 37, 2181 C. 1904 [2] 224).
17) 9-Methyl-3-Isopropenylbicyklo-[1,3,3]-nonan-5-01-7-01. Sc. 102
18) Beljiabieninsaure. Sm. 113—115°. K (A7. 240, 300 0. 1005 [1]
19) Galbanumsäure. Sm. 155—156°. K, Ba, Ag (Ar. 242, 553 C. 1904
20) Palabieninsäure. Sm. 110° (Ar. 240, 575 C. 1903 [1] 163).

$\mathbf{C_{13}H_{20}O_{2}}$	21) Methylester d. Citrylidenessigsäure. Sd. 133° ₁₆ (D.R.P. 153575 C. 1904 [2] 677).
	22) Methylester d. Cyklocitrylidenessigsäure. Sd. 138° ₁₇ (D. R. P.
$C_{13}H_{20}O_{8}$	153575 C. 1904 [2] 678). *6) Methylester d. α -Methylcamphocarbonsäure. Sm. 85° (C. r. 137,
	1067 C. 1904 [1] 282). *7) Aethylester d. Camphocarbonsäure. Sd. 164° ₂₀ (C. r. 136, 240)
	 C. 1903 [1] 584; B. 37, 3947 C. 1904 [2] 1569). 16) 2,3-Dimethyläther-5-Aethyläther d. 2,3,5-Trioxy-1-Propylbenzol.
	Sd. 144—150° ₁₁ (Ar. 242, 346 C. 1904 [2] 525).
	17) 2,5-Dimethyläther-3-Aethyläther d. 2,3,5-Trioxy-1-Propylbenzol. Sd. 147—149° ₁₂ (B. 36, 1719 C. 1903 [2] 114).
	18) 3-Aethyläther d. $\alpha \gamma$ -Dioxy- α -[3-Oxyphenýl]- $\beta \beta$ -Dimethylpropan. Sd. 210 $^{\circ}_{19}$ (M. 24, 171 C. 1903 [1] 968).
	19) Oxyketoisopropenylmethylbicyklononan. Sd. 175—185° ₁₅ (B. 37, 1670 C. 1904 [1] 1606).
	20) Methylester d. β-Methylcamphocarbonsäure. Sd. 135—140° ₁₃ (C. r. 137, 1067 C. 1904 [1] 282).
	21) d - Bornylester d. Brenztraubensäure. Sd. 149—150° ₁₆ (<i>P. Ch.</i> S. No. 230). — *III, 338.
	22) Aethylcarbonat d. Campher (Carboxyäthylcampher). Fl. (C. 1903 [1] 922).
$C_{13}H_{20}O_6$	*2) Diäthylester d. βζ-Diketopentan-γε-Dicarbonsäure, Sd. 215—2180
	*9) Diäthylester d. 1-0xy-5-Keto-1-Methylhexahydrohenzol-2 4-Di-
	carbonsäure. Sm. 79° (A. 332, 12° C. 1904 [1] 1564). 11) $\beta\beta\delta\delta$ -Tetraacetyl- α s-Dioxypentan + 2 H_2 O. Sm. 95° (129° wasser-
	rrei) (B. 36, 2172 C. 1903 [2] 371).
	12) Diäthylester d. 2,6-Dioxy-2-Methyl-1,2,3,4-Tetrahydrobenzol-3,5-Dicarbonsäure. Fl. Na (A. 332, 15 C. 1904 [1] 1564).
	13) Triäthylester d. 1-Methyl-R-Trimethylen-2, 2, 3-Tricarbonsäure. Sd. 163-164 15 (B. 36, 1085 C. 1903 [1] 1126).
$\mathbf{C}_{13}\mathbf{H}_{20}\mathbf{N}_2$	5) Verbindung (aus d. Verb. C ₁₈ H ₁₄ N ₂). Sd. 153° ₁₁ . 2HCl (M. 25, 1078 C. 1904 [2] 1659).
$C_{18}H_{22}O$	8) Allyläther d. 1-Borneol. Sd. 105—107° (C. r. 138, 1665 C. 1904 [2] 441).
	9) Allyläther d. 1-Linalool. Sd. 103—105 15 (C. r. 138, 1667 C. 1904 [2] 441).
	10 x-Keto-βζ-Dimethyl-αθ-Undekadiën (Citronellelegator) Sd 149 big
	11) Di[Hexahydrophenyl]keton, Sd. 159% (C r 139 346 C 1904
	12) Allylmenthon. Sd. 134—1370 (C r. 138, 1140, C 7004, 531, 700)
	13) Vetiron. Sd. 149—150° ₁₀ (D. R. P. 142415 C. 1903 [2] 79). 14) Keton (aus Methylpropylketon und Acetylchlorid). Sd. oberh. 300° (C. 1903 [2] 656)
$C_{18}H_{22}O_2$	
-1822-02	 9) Pseudojononhydrat. Sd. 176—178°, (D. R. P. 143724 C. 1903 [2] 473). 10) α-Oxyisopropylcampher. Sm. 88°, Sd. 210—215° (B. 35, 3911 C. 1903 [1] 29; B. 36, 2630 C. 1903 [2] 625). 11) 9-Methyl-3-Isopropenylbicyklos [1, 2, 2] Theorem. 5. F. M. 1. G. 1831 [2] 473.
	11) 9-Methyl-3-Isopropenylbicyklo-[1,3,3]-Nonan-5,7-diol. Sm. 172 bis
	12) isom. 9-Methyl 3 Toomer 13.
	Sd. 198° ₁₅ (B. 36, 232 C. 1903 [1] 514).
	 13) Methylester d. α-Undekin-α-Carbonsäure. Sd. 168—172° (Bl. [3] 29, 661 C. 1903 [2] 487; C. r. 136, 554 C. 1903 [1] 825). 14) Methylester d. βζ-Dimethyl-α-β-Nonadiën-ι-Carbonsäure. Sd. 135 bis 137° (B. 36, 2799 C. 1903 [2] 877)
	bis 137° ₁₄ (B. 36, 2799 C. 1903 [2] 877).
	*III. 337. Sd. 109—110° _{10—11} (D. R. P. 80711). —
	10) Propionat d. Isoborneol. Sd. 1500 (C. r. 136, 239 C. 1903 [1] 584).
$\mathbf{C}_{13}\mathbf{H}_{22}\mathbf{O}_{3}$	8) Aethylester d. 3-Keto-1-Methyl-2-Isobutyl-R-Pentamethylen- 2-Carbonsäure. Sd. 188—190% (C. r. 138, 210, G. 1004 Fr. 400)
	2-Carbonsäure. Sd. 188—190° 18 (C. r. 138, 210 C. 1904 [1] 663).

- 9) r-Rhodinolester d. Brenztraubensäure. Sd. 143 $^{\rm o}_{10}$ (C. r. 138, 1701 C18H22O3 C. 1904 [2] 440). 15) β-Aethylhomocamphersäure. Sm. 135—140° (C. r. 138, 578 C. 1904 C18H22O4 [1] 949). 16) Diacetat d. 5-Oxy-2-Oxymethyl-1, 3-Dimethylhexahydrobenzol. Sd. 160%, (D.R.P. 148207 C. 1904 [1] 487).
 16) Triacetat d. δ-Oxy-ηη-Di[Oxymethyl]-β-Methylbutan. Sm. 33—34% (B. 36, 1346 C. 1903 [1] 1298). C13H22O6 17) β -Acetat- $\alpha\gamma$ -Dibutyrat d. $\alpha\beta\gamma$ -Trioxypropan. Sd. 289—291° (C. 1903) [1] 134). 2) α -Oxydi[Hexahydrophenyl]methan. Sm. 63°; Sd. 166° $_{20}$ (C. r. 139, 345 C. 1904 [2] 705). 3) Allyläther d. 1-Menthol. Sd. 103—104° $_{18}$ (C. r. 138, 1665 C. 1904 $C_{13}H_{24}O$ [2] 441). 4) Propylmenthon. Sd. $128-132^{\circ}_{19}$ (C. r. 138, 1140 C. 1904 [2] 106). 9) Diäthyläther d. $\alpha\alpha$ -Dioxy- β -Nonin. Sd. 127°_{11} (C. r. 138, 1340 C. 1904 C18H24O2 10) Propionat d. 1-Menthol. Sd. $118^{\circ}_{.15}$ (B. 31, 364). — *III, 333. 7) Caprylat d. α -Oxy- β -Ketopropan. Sd. $165-170^{\circ}_{.25}$ (C. r. 138, 1275 C18H24O8 C. 1904 [2] 93). *1) Brassylsäure (G. 34 [2] 54 C. 1904 [2] 693). 21) Diacetat d. αι-Dioxynonan. Sd. 161% (M. 25, 1086 C. 1904 [2] 1698). C18H24O4 *2) Diäthylester d. γ-Oxy-βδ-Dimethylpentan-βδ-Dicarbonsäure (Bl. [3] 31, 117 C. 1904 [1] 643).
 *2) β-Ketotridekan. Sm. 28°; Sd. 140—142°_{14—15} (Bl. [3] 29, 1128 C. 1904 C18H24O5 C18 H28 O 11 258). 6) Aldehyd d. Dodekan- α -Carbonsäure. Sd. 152 $^{o}_{24}$ (C. r. 138, 699 C. 1904 [1] 1066).

 10) Methylester d. Laurinsäure. Sm. 5°; Sd. 148°₁₈ (Bl. [3] 29, 1121 $C_{13}H_{26}O_{2}$ C. 1904 [1] 259). *1) Di[Dipropylamido] methan. Sd. 115°₁₅ (B. 36, 1197 C. 1903 [1] 1215). *1) Di[Pentachlorphenylester] d. Kohlensäure. Sm. 258° (C. r. 138, $C_{13}H_{30}N_2$
- 13 III 1) 2,3,4,5,6,2',3',4',6'-Nonachlordiphenylester d. Kohlensäure. Sm. 168—169° (C. r. 138, 981 C. 1904 [1] 1413).
 1) 2,3,4,6,2',3',4',6'-Oktochlordiphenylester d. Kohlensäure. Sm. 67° (C. r. 138, 981 C. 1904 [1] 1413). C₁₈HO₃Cl₉ C, H, O, Cl, 1) 2,3,4,6,2',4',6'-Heptachlordiphenylester d. Kohlensäure. Sm. 175 C₁₈H₈O₈Cl₇ bis 176° (C. r. 138, 981 C. 1904 [1] 1413).
 1) 2,3,5-Tribrom-4-Keto-1-[2,3,5-Tribrom-4-Oxybenzyliden]-1,4-Dihydrobenzol. Sm. 245° (A. 330, 71 C. 1904 [1] 1148). $C_{13}H_4O_2Br_6$ 2,4,6,2',4',6'-Hexachlordiphenylester d. Kohlensäure. Sm. 153 bis 154° (C. r. 138, 911 C. 1904 [1] 1412).
 α-Verbindung (aus Methylalkohl u. 3,4,5,6-Tetrabrom-1,2-Benzochinon). $C_{19}H_4O_8Cl_6$ $C_{18}H_4O_5Br_8$ Zers. bei 50° (Am. 31, 97 C. 1904 [1] 802).
 2) β-Verbindung (aus Methylalkohol u. 3, 4, 5, 6-Tetrabrom-1, 2-Benzochinon).
 Sm. 261° u. Zers. (B. 36, 454 C. 1903 [1] 574; Am. 31, 98 C. 1904 [1] 802). C₁₈H₅O₂Cl₅ *1) Pentachlorphenylester d. Benzolcarbonsäure. Sm. 164-165° (B. 37,

981 C. 1904 [1] 1413).

C18O3Cl10

C18H6OBr2

4020 C. 1904 [2] 1717).

1) α,2,3,5,2',3',5'-Heptabrom-4,4'-Dioxybiphenylmethan. Sm. 205 bis 206° u. Zers. (A. 330, 68 C. 1904 [1] 1147).

1) 2,4,6,2',4'-Pentachlorphenylester d. Kohlensäure. Sm. 94° (C. r. 1904 [1] 1419). C, H,O,Br,

C₁₈H₅O₈Cl₅ 138, 911 *C.* 1904 [1] 1412). 2) isom. Pentachlordiphenylester d. Kchlensäure. Sm. 130° (C. r. 138, 981 C. 1904 [1] 1413).
*3) P-Dibrom-9-Ketofluoren. Sm. 202° (197—198°) (B. 37, 3030 C. 1904)

[2] 1225).

C₁₈H₈O₂Cl₄ *1) 2,3,4,6-Tetrachlorphenylester d. Benzolcarbonsäure. Sm. 115° (B. 37, 4015 C. 1904 [2] 1716).

 $C_{18}H_9ON$

C13H9ON C₁₈H₉ON₅

C. 1903 [2] 356).

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2) 2, 3, 5, 2', 3', 5'-Hexabrom-4, 4'-Dioxydiphenylmethan. Sm. 2040
  C_{13}H_6O_2Br_6
                       (A. 330, 67, 80 C. 1904 [1] 1147).
                    1) 2,4,2',4'-Tetrachlorphenylester d. Kohlensäure. Sm. 122-123°
  C<sub>18</sub>H<sub>6</sub>O<sub>3</sub>Cl<sub>4</sub>
                    (C. r. 138, 911 C. 1904 [1] 1412).
2) isom. 2,4,2',4'-Tetrachlordiphenylester d. Kohlensäure. Sm. 88
                    bis 89° (C. r. 138, 911 C. 1904 [1] 1412).
1) 2,3,5,2',3',5'-Hexabrom-α,4,4'-Trioxydiphenylmethan.
  C_{18}H_6O_8Br_6
                                                                                                         Sm. 250°
                       u. Zers. (A. 330, 75 C. 1904 [1] 1148).
C 55,3 — H 2,1 — O 22,7 — N 19,9 — M. G. 282.
  C_{13}H_6O_4N_4
                    1) Nitril d. 6-Oxy-2-Keto-4-[4-Nitrophenyl]-2, 5-Dihydropyridin-3.5-
                       Dicarbonsaure. Zers. bei 270–275°. NH_4 + 1^{1/2}H_2O, Ba + 6H_2O
                       (C. 1904 [1] 878).
                   2) 3,5,3,'5'-Tetranitro-4,4'-Dioxydiphenylketon. Sm. 203° (G. 34 [1] 382 C. 1904 [2] 111).
C 34,4 — H 1,3 — O 45,8 — N 18,5 — M. G. 454.
  C_{13}H_6O_{11}N_4
  C_{13}H_6O_{13}N_6
                   1) Hexanitro-4-Methyldiphenyläther (C. 1903 [1] 634).
  C<sub>13</sub>H<sub>7</sub>OCl<sub>5</sub>
                   1) Benzyläther d. Pentachloroxybenzol. Sm. 167-168° (B. 37, 4020)
                   C. 1904 [2] 1717).

1) 2,3,5,6,4'-Pentabrom-4-Oxydiphenylmethan. Sm. 146—147° (A. 334, 376 C. 1904 [2] 1051).
 C_{13}H_7OBr_5
                   2) 2,4,4'-Trichlordiphenylester d. Kohlensäure. Sm. 115° (C. r. 138.
 C18H7O8Cl3
                      911 C. 1904 [1] 1412).
                   3) ?-Trichlordiphenylester d. Kohlensäure. Sm. unterhalb 100° (O. r.
                      138, 911 C. 1904 [1] 1412).
                  2) Nitril d. 2,6-Diketo-4-[3,4-Dioxyphenyl]-1,2,3,6-Tetrahydropyridin-3,5-Dicarbonsäure. 2 isom. Formen. NH<sub>4</sub> + H<sub>2</sub>O, Ba + H<sub>2</sub>O
 C<sub>19</sub>H<sub>7</sub>O<sub>4</sub>N<sub>8</sub>
                      (C. 1904 [2] 903).
                 *1) 4,4'-Dichlordiphenylketon. Sm. 145° (146°) (C. r. 137, 711 C. 1903
 C13H3OCl2
                  [2] 1442; G. 34 [1] 376 C. 1904 [2] 110).
3) 2,4'-Dichlordiphenylketon. Sm. 66,5—67°; Sd. 214—215°<sub>22</sub> (Am. 30,
                     397 C. 1904 [1] 284).
                 *1) 2,4'-Dibromdiphenylketon. Sm. 50-52° (Am. 30, 453 C. 1904 [1]
C<sub>18</sub>H<sub>8</sub>OBr<sub>2</sub>
                *3) 4,4'-Dibromdiphenylketon. Sm. 171-172° (172-173°) (C. r. 137, 710 C. 1903 [2] 1442; Am. 30, 451 C. 1904 [1] 377).

4) 3,5-Dibrom-4-Keto-1-Benzyliden-1,4-Dihydrobenzol + H<sub>2</sub>0. Sm. 135-136° (A. 334, 377 C. 1904 [2] 1051).
                  5) 3,4'-Dibromdiphenylketon. Sm. 130° (B. 37, 3485 C. 1904 [2] 1131).
                 1) 3,5,8',5'-Tetrabrom-4,4'-Dioxydiphenylmethan. + 2C,H,O, (Sm. 226—227°) (B. 36,1884 C. 1903 [2] 291; A. 330, 66 C. 1904 [1] 1147). 3) 3,4-Dijodphenylester d. Benzolcarbonsäure. Sm. 123° (C. r. 136,
C<sub>18</sub>H<sub>8</sub>O<sub>2</sub>Br<sub>4</sub> *1) 3,5,3',5'-Tetrabrom-4,4'-Dioxydiphenylmethan.
\mathbf{C}_{18}\mathbf{H}_{8}\mathbf{O}_{2}\mathbf{J}_{8}
                     1079 C. 1903 [1] 1339).
C<sub>18</sub>H<sub>8</sub>O<sub>3</sub>Cl<sub>2</sub> *2) 4,4'-Dichlordiphenylester d. Kohlensäure.
                                                                                       Sm. 144-145° (C. r.
                     138, 910 C. 1904 [1] 1412).
                     C 49,3 — H 2,5 -
C_{18}H_8O_6N_4
                                               0.30,4 - N.17,7 - M.G. 316.
                  1) 2,4,6-Trinitro-1-Phenylimidomethylbenzol. Sm. 162 ° (B. 36, 961
                     C. 1903 [1] 969).
C 45,3 — H 2,3 — O 27,9 — N 24,4 — M. G. 344.
C13H8O6N6
                  1) 6-[2,4,6-Trinitrophenyl]amidoindazol. Zers. bei 240° (B. 37, 2582
                     C. 1904 [2] 659).
                 4) 3,3'- Dinitro - 4,4'-Dioxydiphenylketon. Sm. 172° (G. 34 [1] 385
C18H8O7N8
                     C. 1904 [2] 111).
                 3) 4-Nitrophenyl-2,4,6-Trinitrobenzylidenhydrazin. Sm. 2470 (B. 36,
C13H8O8N6
                961 C. 1903 [1] 969).
*2) 3,5,3',5'-Tetranitro-4,4'-Diamidodiphenylketon. Sm. 270° (G. 34)
C_{13}H_8O_9N_6
                     [1] 383 C. 1904 [2] 111)
                     C 38,2 — H 2,0 — O 39,2 — N 20,6 — M. G. 408.
C<sub>13</sub>H<sub>8</sub>O<sub>10</sub>N<sub>6</sub>
                 1) 2, 4, 6-Trinitrophenyl-4-Nitrobenzylnitramin. Sm. 141° u. Zers.
                     (R. \ 21, 429 \ C. \ 1903 \ [1] 506).
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20) Phenylanthranil. Sm. 52-53° (B. 36, 1615 C. 1903 [2] 36).

4) 3-[2-Oxyphenyl]-1,2,4-Benztriazin. Sm. 167° (C. 1903 [2] 427). C 62,1 — H 3,6 — O 6,4 — N 27,9 — M. G. 251.

1) 4 - Benzoylbenzoldiazoniumazid. Zers. bei 116—117° (B. 36, 2058)

$\mathbf{\dot{C}_{13}H_9OBr_3}$	3) 3,5,4'-Tribrom-4-Oxydiphenylmethan. Sm. 88° (4. 334, 375 C. 1904 [2] 1051).
$\mathbf{C_{18}H_9O_2N}$	*3) 5-Oxy-1-Phenylbenzoxazol. Sm. 217° (B. 35, 4202 C. 1903 [1] 146). 17) αβ-Diketo-α-Phenyl-β-[2-Pyridyl]äthan. Sm. 78—79°. HCl, Pikrat
	(B. 36, 125 C. 1903 [1] 470). 18) 3-Oxy-1-Phenylbenzoxazol. Sm. 188—189° (B. 37, 3111 C. 1904
	[2] 995; B. 37, 3775 Berichtigung).
$\mathbf{C_{13}H_9O_2N_3}$	 19) 3-Oxy-5-Keto-5,10-Dihydroakridin. Sm. 327—330° (C. 1904 [2] 720). 13) 7-Semicarbazon-8-Ketoacenaphten. Sm. 192—193° (G. 33 [1] 46 C. 1903 [1] 882).
$\mathbf{C}_{13}\mathbf{H_9O_2Br}$	*5) 4-Bromphenylester d. Benzolcarbonsäure. Sm. 101—102° (Soc. 85, 1227 C. 1904 [2] 1032).
$\mathbf{C}_{13}\mathbf{H}_{9}\mathbf{O}_{2}\mathbf{J}$	1) 3-Jodphenylester d. Benzolcarbonsäure. Sm. 70° (A. 332, 66 C. 1904 [2] 42).
$\mathbf{C_{13}H_9O_3N}$	14) Naphtostyril - N - Methylcarbonsäure (peri-Naphtostyrilessigsäure). Sm. 258—259°. Na. Ar (B. 35, 4220 C. 1903 [1] 166).
$\mathbf{C^{13}H^{9}O^{3}N^{3}}$	5) 2-[4-Oxyphenyl]-2,1,3-Benztriazol-2 ³ -Carbonsäure. Sm. 296—297 (<i>J. pr.</i> [2] 67, 583 <i>C.</i> 1903 [2] 205).
	6) 3-Amido-2-Oxy-5,10-Naphtdiazin-7-Carbonsäure. Sm. noch nicht bei 360° (B. 36, 4032 C. 1904 [1] 294).
	7) Aldehyd d. 3'-Nitroazobenzol-4-Carbonsäure. Sm. 223° (Am. 32, 398 C. 1904 [2] 1499).
	8) Aethylester d. α -Phenyl- γ -Aethylsemicarbazidoessigsäure. Sm. 97 bis 98° (B. 36, 3885 C. 1904 [1] 27).
$\mathbf{C}_{13}\mathbf{H}_{9}\mathbf{O}_{8}\mathbf{C}\mathbf{I}$	*2) 4-Chlordiphenylester d. Kohlensäure. Sm. 95—96° (C. r. 138, 910 C. 1904 [1] 1412).
$\mathbf{C}_{18}\mathbf{H}_{9}\mathbf{O}_{8}\mathbf{Br}$	*1) Phenylester d. 5-Brom-2-Oxybenzol-1-Carbonsäure. Sm. 112° (G. 34 [1] 277 C. 1904 [1] 1499).
	(6) Phenylester d. 3-Brom-2-Oxybenzol-1-Carbonsäure. Sm. 98° (G. 34) [1] 277 C. 1904 [1] 1499).
$\mathbf{C}^{13}\mathbf{H}^{9}\mathbf{O}^{4}\mathbf{N}$	*14) 3-Nitro-4'-Oxydiphenylketon. Sm. 173° (B. 36, 3891 C. 1904 [1] 93). 16) 4-Nitro-2'-Oxydiphenylketon. Sm. 111—113° (Ph. Ch. 32, 43; B. 36,
	3897 C. 1904 [1] 93). 17) 4-Nitro-4'-Oxydiphenylketon. Sm. 190—192° (B. 36, 3897 C. 1904
$\mathbf{C_{18}H_{9}O_{4}N_{5}}$	[1] 94). *2) 6-[2,4-Dinitrophenyl]amidoindazol. Sm. 261° (B. 37, 2582 C. 1904 [2] 659).
$C_{18}H_9O_4Cl$	1) 4'-Chlor-2, 3, 4-Trioxydiphenylketon. Sm. 154-155° (D. R. P. 49149,
$\mathbf{C_{18}H_9O_5N_8}$	13) 2'-Nitro-4-Oxyazobenzol-3-Carbonsaure. Sm. 219—211° (J. pr. [2]
$\mathbf{C_{18}H_9O_6N}$	3) Monobenzoat d. 4-Nitro-1,2,3-Trioxybenzol. Sm. 214 u. Zeis.
$\mathbf{C}_{18}\mathbf{H}_{9}\mathbf{O}_{6}\mathbf{N}_{5}$	5) Phenyl-2, 4, 6-Trinitrobenzylidenhydrazin. Sm. 202 (B. 50, 500
$\mathbf{C}_{18}\mathbf{H}_{9}\mathbf{O}_{7}\mathbf{N}_{8}$	*6) 5-[2,4-Dinitrophenyl]amido-2-Oxybenzol-1-Carbonsäure (D.R.P. 147862 C. 1904 [1] 235).
$\mathbf{C_{13}H_9O_8N_5}$	
	(c. 1905 [1] 520). 3) 2',4',9,9-Tetranitro-4-Methyldiphenylamin. Sm. 219° (B. 36, 32 C. 1903 [1] 520).
$\mathbf{C}_{13}\mathbf{H}_{9}\mathbf{NCl}_{2}$	[2] 1009). Franchistin Sm 186—188° (Sec. 85, 1200
$C_{18}H_9NBr$	C. 1904 [2] 1059). Zers.
C ₁₈ H ₉ NBr	(See 85 1200 C. 1904 [2] 1059).
$\mathbf{C_{18}H_{9}NJ_{2}}$	[2] 1059)
$\mathbf{C_{18}H_{9}NSe} \ \mathbf{C_{13}H_{10}ON}$	*1) Benzolazobenzoyi. Fi. (3. pr. 1=175, sept. 1=175, sep
	[1] 286). 20) Carbonyldiphenylhydrazin (B. 36, 3158 C. 1903 [2] 1057).

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3) 4,4'-Dibrom-\alpha-Oxydiphenylmethan. Sm. 115-116° (Am. 30, 457
C_{13}H_{10}OBr_2
                    C. 1904 [1] 377).
                4) 3,5-Dibrom-4-Oxydiphenylmethan. Sm. 44° (u. 57°) (A. 334, 374
                   C. 1904 [2] 1050).
                2) Benzyläther d. 3,4-Dijod-1-Oxybenzol. Fl. (Bl. [3] 29, 606 C. 1903
C_{13}H_{10}OJ_{2}
                   [2] 359).
               *2) Phenylester d. Benzolthiolcarbonsäure. Sm. 560 (Bl. [3] 29, 764
C18H10OS
                    C. 1903 [2] 621).
                3) 9-Oxythioxanthen. Sm. 150° (B. 34, 3310). - *III, 597.
C<sub>13</sub>H<sub>10</sub>O<sub>2</sub>N<sub>2</sub>*18) Azobenzol-4-Carbonsäure (B. 36, 3009 C. 1903 [2] 1031).
*24) Phenylnitrosamid d. Benzolcarbonsäure (A. 325, 236 C. 1903
                    [1] 631).
C_{19}H_{10}O_{2}Br_{2} 2) 3,5-Dibrom-\alpha,4-Dioxydiphenylmethan. Sm. 164—165° (A. 334, 379)
                    C. 1904 [2] 1051).
                3) 3,5-Dibrom-4-Keto-1-[\alpha-Oxybenzyl]-1,4-Dihydrobenzol. Sm. oberh.
                   137-138° u. Zers. (A. 334, 380 C. 1904 [2] 1052).
C<sub>18</sub>H<sub>10</sub>O<sub>8</sub>N<sub>2</sub> 31) Monobenzoat d. 1,4-Dioximido-1,4-Dihydrobenzol. Zers. bei 160°
                   (G. 33 [1] 238 C. 1903 [1] 1409).
                2) α-Nitroso-α-Phenylhydrazon-α-[2-Nitrophenyl]methan.
C_{15}H_{10}O_{3}N_{4}
                   83,5—84° (B. 36, 80 C. 1903 [1] 452).
                3) α-Nitroso-α-Phenylhydrazon-α-[3-Nitrophenyl]methan. Zers. 98,5°
                   (B. 36, 74 C. 1903 [1] 452; B. 36, 98 C. 1903 [1] 453).
                4) α-Nitroso-α-Phenylhydrazon-α-[4-Nitrophenyl]methan. Zers. bei 79°
                   (B. 36, 78 C. 1903 [1] 452).
                5) \alpha-[4-Nitrophenyl]-\beta-[\alpha-Nitrosobenzyliden]hydrazin. 85-86° (B. 36, 351 C. 1903 [1] 574).
                6) α-Oximido-α-Phenylazo-α-[2-Nitrophenyl]methan. Sm. 153,5-1540
                   (B. 36, 81 C. 1903 | 1 | 452).
                7) α-Oximido-α-Phenylazo-α-[3-Nitrophenyl]methan. Zers. bei 1830
                   (B. 36, 72 C. 1903 [1] 452).
                8) \alpha-Oximido-\alpha-Phenylazo-\alpha-[4-Nitrophenyl]methan.
                                                                                           Sm. 180,8°
                   (B. 36, 77 C. 1903 [1] 452).
                9) \alpha-Oximido-\alpha-[4-Nitrophenyl]azo-\alpha-Phenylmethan.
                                                                                           Sm. 142,5°.
                   3 + C_6H_6 (B. $6, 357 \bar{C}. 1903 [1] 575).
                2) 4-Oxydiphenylsulfid-3-Carbonsaure? Sm. 168° (B. 36, 111 C. 1903
C13H10O8S
                   [1] 454; D.R.P. 147634 C. 1904 [1] 131).
C<sub>13</sub>H<sub>10</sub>O<sub>4</sub>N<sub>2</sub> 25) 3'-Nitrodiphenylamin-2-Carbonsäure.
                                                                         Sm. 215° (B. 36, 2384
                   C. 1903 [2] 664).
C_{18}H_{10}O_4N_4*11) 4-Nitrophenylhydrazonphenylnitromethan (B. 36, 355 C. 1903 [1]
               16) \alpha-Nitro-\alpha-Phenylhydrazon-\alpha-[2-Nitrophenyl]methan.
                                                                                             Sm. 146°
                   (B. 36, 82 C. 1903 [1] 452).
              17) α-Nitro-α-Phenylhydrazon-α-[3-Nitrop):englimethen. Sm. 135° (140,5°) (B. 36, 76 C. 1903 [1] 452; β. 36, β. 11. 1903 [1] 453). 18) α-Nitro-α-Phenylhydrazon-α-[4-Nitrophenyl]methan. Sm. 156,5°
                   (B. 36, 79 C. 1903 [1] 452).
               19) \alpha-[4-Nitrophenyl]-\beta-[2-Nitrobenzyliden]hydrazin. Sm. 250° (R. 22,
                   439 C. 1904 [1] 15).
              14) 2', P-Dinitro-2-Methyldiphenyläther.
                                                                    Sm. 98° (C. 1903 [1] 634).
C_{13}H_{10}O_5N_2
                                                                    Sm. 125° (C. 1903 [1] 509).
               15) 4', P-Dinitro-2-Methyldiphenyläther.
               16) 2',?-Dinitro-3-Methyldiphenyläther.
                                                                    Sm. 106° (C. 1903 [1] 634).
               17) 4', ?-Dinitro-3-Methyldiphenyläther.
                                                                    Sm. 103-104° (Am. 28, 479
C. 1903 [1] 327).

18) 2',?-Dinitro-4-Methyldiphenyläther. Sm. 100° (C. 1903 [1] 634).

19) 4',?-Dinitro-4-Methyldiphenyläther. Sm. 101° (C. 1903 [1] 634).

C<sub>18</sub>H<sub>10</sub>O<sub>5</sub>N<sub>4</sub> *3) s-Di[3-Nitrophenyl]harnstoff. Sm. 233° (M. 25, 388 C. 1904 [2] 320).

8) 3,3'-Dinitro-4,4'-Diamidodiphenylketon. Sm. 121° (G. 34 [1] 379
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C. 1904 [2] 111).

d.

d. Sm. 110° (D.R.P. 76493, 82747). - *III, 76.

Sm. 147° (D.R.P. 76493). — *III, 76.

3, 4-Dioxybenzol-1-Carbonsäurealdehyd.

3, 4-Dioxybenzol-1-Carbonsäurealdehyd.

Sm. 150° (B. 37, 2095

3) 3-Benzolsulfonat

4) 4-Benzolsulfonat

C. 1904 [2] 34).

C₁₈H₁₀O₆N₄ *2) 2,4,6-Trinitro-3-Methyldiphenylamin.

 $C_{18}H_{10}O_5S$

C₁₈H₁₀O₆N₄ 4) 2',4',6'-Trinitro-2-Methyldiphenylamin. Sm. 164° (B. 36, 31 C. 1903 [1] 520). 5) 2',4',?-Trinitro-2-Methyldiphenylamin. Sm. 158° (B. 36, 30 C. 1903 [1] 520). 2) 2,4,6-Trinitro-4'-Oxy-3-Methyldiphenylamin. $C_{18}H_{10}O_7N_4$ Sm. 207° (B. 37. 2095 C. 1904 [2] 34). 3) Methyläther d. 2,4,6-Trinitro-3-Oxydiphenylamin. Sm. 178° (R. 21, 324 C. 1903 [1] 79). 1) Phenyl-4-Jodbenzylidenamin. Sm. 93° (A. 332, 75 C. 1904 [2] 43). *6) 1-Phenylamidobenzthiazol. Sm. 159° (B. 36, 3127 C. 1903 [2] 1070). $C_{13}H_{10}NJ$ $C_{18}H_{10}N_2S$ *5) 2-Amidodiphenylketon. Sm. 105° (B. 35, 4276 C. 1903 [1] 333). *8) α-Oximidodiphenylmethan. Sm. 143,5—144° (B. 36, 704 C. 1903 $C_{13}H_{11}ON$ [1] 818). *12) Formyldiphenylamin. Sm. 72,2°; Sd. 189,5—190,5°₁₈ (B. 36, 2477) C. 1903 [2] 559). *20) Phenylamid d. Benzolcarbonsäure. Sm. 161° (B. 36, 135 C. 1903 29) 3-Oxy-I-Phenylimidomethylbenzol. Sm. 90,5-910 (92-930) (A. 313, 29) 3-Oxy-1-F nenyiimidomethyloenzol. Sm. 50,5-51 (52-53) (A. 515, 112; D.R.P. 105006 C. 1899 [2] 1078). — *III, 57.
30) 3,5-Diphenylisoxazol. Sm. 142° (C. r. 137, 796 C. 1904 [1] 43).
31) β-Oxy-α-Phenyl-β-[2-Pyridyl]äthen. Sm. 50-51°. HCl + 2H₂O, (2HCl, PtCl₄), Pikrat (B. 36, 122 C. 1903 [1] 470).
14) 2,7-Diamido-9-Oximidofluoren (D. R.P. 52596, 57394). — *III, 177. C18H11ON8 15) α-Oximido-α-Phenylazo-α-Phenylmethan (Phenylazobenzaldoxim). Sm. 134—135° (B. 36, 63 C. 1903 [1] 451). 16) 4-Oximidomethylazobenzol. Sm. 143° (C. r. 135, 1117 C. 1903 [1] 286). 17) 5-Amido - 1 - Oxy - 2 - Phenylbenzimidazol. Sm. 1640 (B. 37, 2281 C. 1904 [2] 434). 18) 6-Methyl-2-Phenyl-1,1-Dihydro-2,1,3-Benztriazol-1-Oxyd. Sm. 142,5° (B. 36, 3826 C. 1904 [1] 19). 1) α-Oxy-4-Joddiphenylmethan. Sm. 71° (A. 332, 78 C. 1904 [2] 43). *8) 4-Nitrodiphenylmethan. Sm. 31°. + AlCl₃ (R. 23, 106 C. 1904 C13H11OJ $C_{13}H_{11}O_{2}N$ [1] 1136. *15) 4-Benzoylamido-1-Oxybenzol. Sm. 212—213° (B. 37, 3941 C. 1904 [2] 1597). *33) 2-Phenylamidobenzol-1-Carbonsäure. Sm. 181° (183—184°) (B. 36, 2383 C. 1903 [2] 664; D.R.P. 145189 C. 1903 [2] 1097).
58) a-Imido-2, 2'-Dioxydiphenylmethan. Sm. 222° (A. 269, 321; B. 32, 1678). — III, 195; *III, 153. 59) γ -Keto- γ -[4-Amidophenyl]- α -[2-Furanyl] propen. H₂SO₄ (B 37, 396 C. 1904 [1] 658). 60) β-[4-Methyl-2-Chinolyl] akrylsäure. Sm. 214° u. Zers. (2 HCl, PtCl₄) (B. 37, 1331 C. 1904 [1] 1360). 61) Inn. Anhydrid d. Oxyessig-1-Methylamido-2-Naphtyläthersäure (N-Methyl- β -Naphtomorpholon). Sm. 84—85° (Soc. 83, 1419 C. 1903 [1] 1419 C. 1903 [2] 448). 62) 3-Amidophenylester d. Benzolcarbonsäure (A. 332, 65 C. 1904 [2] 42). C₁₃H₁₁O₂N₃*11) Phenylhydrazonphenylnitromethan. Sm. 101,5—102,5° (B. 36, 65 C. 1903 [1] 451). *19) Benzyliden - 4 - Nitrophenylhydrazin. Sm. 191-1920 (B. 36, 357 C. 1903 [1] 575). 26) Phenyl-4-Nitro-2-Amidobenzylidenamin. Sm. 147° (B. 37, 1864) C. 1904 [1] 1600). 27) α -Nitroso- $\alpha\beta$ -Diphenylharnstoff. Sm. 82° u. Zers. (A. 325, 244) C. 1903 [1] 631). 28) 2'-Nitro-2-Methylazobenzol. Sm. 108-109° (B. 36, 3818 C. 1904 [1] 18). 29) 2-Nitro-4-Methylazobenzol. Sm. 71—71,5° (B. 36, 3821 C. 1904 [1] 18). 30) 2'-Nitro-4-Methylazobenzol. Sm. 88° (B. 36, 3819 C. 1904 [1] 18). 31) 6-Benzylidenhydrazidopyridin-3-Carbonsäure. Sm. 281° u. Zers. (B. 36, 1114 C. 1903 [1] 1184). 32) Phenylamid d. 4-Oxyphenylazoameisensäure. Sm. 185—186° (A. 334, 167 C. 1904 [2] 834).

C₁₈H₁₁O₈N *36) 4'-Nitro-4-Methyldiphenyläther. Sm. 66°; Sd. 225°₂₅ (C. 1903 [1] 634).

41) 4'-Nitro-2-Methyldiphenyläther. Sd. 220-2220 (C. 1903 [1] 509).

42) 4'- Nitro - 3 - Methyldiphenyläther. Sm. 60-61°; Sd. 230-233°, and continue of the state of

 $C_{13}H_{11}O_3N$

 $(Am. 28, 486 C. 1903 [\bar{1}] 327).$ 43) Phenylamid d. 3,4-Dioxybenzol-l-Carbonsäure. Sm. 154-156°. Bi (Bl. [3] 31, 178 C. 1904 [1] 869; Bl. [3] 31, 920 C. 1904 [2] 773). C₁₈H₁₁O₃N₃*11) 4-Nitrophenyl-2-Oxybenzylidenhydrazin. Sm. 225° C. 1904 [1] 15). 40) 3'-Amido-4-Oxyazobenzol-3-Carbonsäure (D.R.P. 137594 C. 1903 [1] 113). $C_{18}H_{11}O_4N$ *18) Phenylamid d. 3,4,5-Trioxybenzol-1-Carbonsäure. BiOH (Bl. [3] 29, 532 C. 1903 [2] 243). 20) 1-Naphtylamidoessigsäure-8-Carbonsäure. Na2, Ag2 (B. 35, 4221 C. **1903** [1] 166). 21) α -[2-Furanoyl]amido- α -Phenylessigsäure. Sm. 178-179° (B. 37, 2960 C. 1904 [2] 993). 22) Methylester d. α -Cyan- β -Acetoxyl- β -Phenylakrylsäure. Sm. 89° (C. r. 136, 690 C. 1903 [1] 919; Bl. [3] 31, 327 C. 1904 [1] 1135). 23) Methylester d. α -Cyan- β -Benzoxylerotonsäure. Sm. 61, 5° (C. r. 136, 691 C. 1903 [1] 920). 24) 1-Phenylamidoformiat d. 1,2,3-Trioxybenzol. Sm. 1410 (B. 37, 109 C. 1904 [1] 584). 25) ε -Phenylamid d. β -Oxy- δ -Keto- β -Penten- ε ε -Dicarbonsäure- β_{ε} -Lakton (C-Carbanilidotriacetsäurelakton). Sm. 156° (B. 37, 3391 C. 1904 [2] 1221). $C_{18}H_{11}O_4N_8$ *4) 2-[2,4-Dinitrophenyl]amido-1-Methylbenzol. Sm. 120° (J. pr. [2]) 68, 257 C. 1903 [2] 1064; B. 36, 30 C. 1903 [1] 520). Sm. 131° (J. pr. [2] *5) 4-[2,4-Dinitrophenyl]amido-l-Methylbenzol. 68, 256 C. 1903 [2] 1064). *10) 2-Nitrophenyl-4-Nitrobenzylamin. Sm. 138° (R. 21, 429 C. 1903 17 506) *11) Methyl-2,4-Dinitrodiphenylamin. Sm. 167° (J. pr. [2] 68, 255 C. 1903 [2] 1064). *16) 4-Nitrophenyl-4-Nitrobenzylamin. Sm. 1920 (R. 21, 428 C. 1903 [1] 506). 18) 3-[2,4-Dinitrophenyl]amido-1-Methylbenzol. Sm. 159° (J. pr. [2] 68, 257 C. 1903 [2] 1064). 19) 2,'4'-Dinitro-3-Methyldiphenylamin. Sm. 161° (B. 36, 31 C. 1903 [1] 520). *3) 5-[4-Nitro-2-Amidophenyl]amido-2-Oxybenzol-1-Carbonsäure. $C_{18}H_{11}O_5N_8$ (D.R.P. 139679 C. 1903 [1] 748). 6) Methyläther d. 4,6-Dinitro-2-Oxydiphenylamin. Sm. 155° (R. 23, 114 C. 1904 [2] 205). 7) Methyläther d. 4,6-Dinitro-3-Oxydiphenylamin. Sm. 168° (R. 23, 121 C. 1904 [2] 206). 8) Nitroamidooxydiphenylamincarbonsäure. Na (D. R. P. 148341 C. 1904 [1] 415). 3) 2,4,6-Trinitro-4'-Amido-3-Methyldiphenylamin. Sm. 198,5° (B. 37, $C_{18}H_{11}O_6N_5$ 2096 C. 1904 [2] 34). 4) 2,4,6-Trinitro-3-Methylamidodiphenylamin. Sm. 174° (R. 21, 325 C. 1903 [1] 80). C13H11NS *3) Phenylamid d. Benzolthiocarbonsäure. Sm. 101,5 - 1020 (B. 36, 587 *C.* **1903** [1] 830). 6) Thiobenzimidophenyläther. Sm. 48°. HCl (B. 36, 3465 C. 1903 [2] 1243). 8) α -Imido- α -[4-Chlorphenyl]amido- α -Phenylmethan. Sm. 115—116°. (2HCl, PtCl₄), (HCl, AuCl₃), Pikrat (J. pr. [2] 67, 450 C. 1903 [1] 1421). 2-Chlorbenzylidenphenylhydrazin. Sm. 86° (C. 1903 [2] 427). $C_{18}H_{11}BrJ_{2}$ 1) 3'-Brom-4-Methyldiphenyljodoniumjodid. Sm. 139° u. Zers. (J. pr. [2] **69**, 329 *C.* **1904** [2] 36). 1) 3'-Brom-2-Methyldiphenyljodoniumbromid. Sm. 185° (J. pr. [2] 69, $C_{18}H_{11}Br_{2}J$ 331 *C.* **1904** [2] 36). 2) 3'-Brom-4-Methyldiphenyljodoniumbromid. Sm. 175° (J. pr. [2] 69, 329 O. 1904 [2] 36).

 $C_{13}H_{12}ON_2$ *2) s-Diphenylharnstoff. Sm. 235° (M. 25, 376° C. 1904 [2] 320).

- 283 --- $C_{13}H_{12}ON_2$ *20) 2-Oxybenzylidenphenylhydrazin. Sm. 142°; Sd. 234°₂₈ (B. 36, 580) C. 1903 [1] 709). *23) 4-Oxybenzylidenphenylhydrazin. Sm. 184° (B. 36, 3974 C. 1904 [1] 163). *49) β -Phenylhydrazid d. Benzolcarbonsäure (C. 1903 [1] 829) 59) 2-Oxymethylazobenzol. Sm. 77—78° (C. r. 136, 1136 C. 1903 [1] 1416). 60) Methyläther d. 3-Oxyazobenzol. Sm. 32,5—33,5°; Sd. 193—193,5°₁₆. (2HCl, PtCl₄) (B. 36, 4099 C. 1904 [1] 270). 61) Farbstoff (aus 4-Amido-1-Oxybenzol u. 2-Amido-1-Methylbenzol) (J. pr. [2] 69, 172 C. 1904 [1] 1268). 62) Verbindung (aus α - Nitroso - β - [2-Amidobenzoyl] - α - Phenylhydrazin).
 Sm. 206° (J. pr. [2] 69, 104 C. 1904 [1] 730). 4) 4'-Oxy-4-Methyldiphenylsulfid. Fl. (D.R.P. 147634 C. 1904 [1] 131). $C_{18}H_{12}OS$ 5) Methyläther d. 4-Oxydiphenylsulfid. Sd. 180—185°₁₂ (B. 36, 109 C. 1903 [1] 454; D.R.P. 147634 C. 1904 [1] 131). $C_{13}H_{12}O_2N_2$ *3) 2-Oxy-1-Phenylnitrosamidomethylbenzol. K (A. 325, 247 C. 1903) [1] 632). *10) Phenyl-4-Nitrobenzylamin (Am. 30, 107 C. 1903 [2] 718). 53) 3,5-Diacetyl-4-Phenylpyrazol. Sm. 134° (A. 325, 186 C. 1903 54) 3-Acetyl-5-Benzoyl-4-Methylpyrazol. Sm. 97° (A. 325, 190 C. 1903 [1] 647). $C_{13}H_{12}O_2N_4 30) 6-Nitro-3-Amido-1-Phenylhydrazonmethylbenzol.$ (M. 24, 8 C. 1903 [1] 775). 31) 3-Nitro-4-Amido-1-Phenylhydrazonmethylbenzol. Sm. 2020 (M. 24, 93 C. 1903 [1] 921). 32) α -Nitroso- β -[2-Amidobenzoyl]- α -Phenylhydrazin. Zers. bei 78° (*J. pr.* [2] 69, 103 *C.* 1904 [1] 730). $C_{13}H_{12}O_2S$ *2) Phenyl-4-Methylphenylsulfon. Sm. 124° (B. 35, 4275 Anm. C. 1903 [1] 332). C₁₈H₁₂O₈N₂ 35) Aethylester d. α-Cyan-α-Imido-γ-Ketobutan- β -Carbonsäure. Sm. 142,5° (A. 332, 148 C. 1904 [2] 192). 36) Aethylester d. β -Cyan- β -Imido- α -Benzoylpropionsäure (Z. Kr. 33, 88). **—** ***II**, *1174*. 37) Benzoat d. Verbindung $C_8H_8O_2N_2$. Sm. 180—181° (G. 34 [1] 47 C. 1904 [1] 1150). 2-Phenyl-1,2,3,4-Tetrazin-6-Dimethylmalonsäure. Sm. 163—164°.
 Ca, Ba (Soc. 83, 1253 C. 1903 [2] 1422). $C_{13}H_{12}O_{8}N_{4}$ 5) α -[1-Naphtyl]sulfon- β -Ketopropan. Sm. 65° (J. pr. [2] 55, 415). — *II, 509. C₁₈H₁₂O₃S 6) α -[2-Naphtyl]sulfon- β -Ketopropan. Sm. 130° (J. pr. [2] 55, 399). — *II, *528*. 7) Verbindung (aus βγ-Dibrompropyl-1-Naphtylsulfon). Sm. 127° (J. pr. [2] 55, 215). — *II, 509. Verbindung (aus βγ-Dibrompropyl-2-Naphtylsulfon). Sm 167° (J. pr. [2] 53, 488; [2] 55, 216). — *II, 528. C₁₃H₁₂O₄N₄ *5) 2,2'-Dinitro-4,4'-Diamidodiphenylmethan (D.R.P. 139989 C. 1903 [1] 798).
 *6) 4-[2,4-Dinitrophenyl]amido-2-Amido-1-Methylbenzol. Sm. 183 bis 184° (J. pr. [2] 68, 258 C. 1903 [2] 1064). 11) 4,6-Dinitro-4'-Amido-3-Methyldiphenylamin. Sm. 166° (B. 37, 2094 C. 1904 [2] 34). C 45,3 - H 3,5 - O 18,6 - N 32,6 - M. G. 344.C13H12O4N8 1) Azid d. α -Benzoylamidoacetylamidoathan- $\alpha\beta$ -Dicarbonsäure. Sm.
- 76° (J. pr. [2] 70, 177 C. 1904 [2] 1396). 76° (3. pr. [4] 10, 111 C. 1904 [2] 1990.
 2) Nitril d. β-ΟΧΥ-γ-Κετο-α-[4-Nitrophenyl]-β-Acetylbutan-α-Carbonsäure. Sm. 161—162° (B. 36, 3229 C. 1903 [2] 941).
 2) Säure (aus d. Verb. C₁₅H₁₅O₅N₄) (A. 331, 313 C. 1904 [2] 46). C 53,4 — H 4,1 — O 32,9 — N 9,6 — M. G. 292.
 1) Aethylester d. 4,5-Diketo-2-[3-Nitrophenyl] tetrahydropyrrol-3-Carbonsäure. Zers. bei 173°. NH₄ (C. r. 138, 979 C. 1904 [1] 1415).
 6) Methylamidobenzol + 1,3,5-Trinitrobenzol. Sm. 81—82° (Soc. 83, 1341 C. 1904 [1] 100) $\mathbf{C_{13}H_{12}O_5N_2}$
- C18H12O5N4 C18H12O6N2
- $C_{18}H_{12}O_6N_4$ 1341 C. 1904 [1] 100).

 $C_{18}H_{12}O_8N_2$ *1) Aethylester d. α -[3,5-Dinitrobenzoyl]acetessigsäure. Sm. 88—89°

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(J. pr. [2] 69, 458 C. 1904 [2] 595).
Di[2-Chlorphenylamido]methan. Sm. 84° (B. 36, 45 C. 1903 [1] 504).
C_{13}H_{12}N_2Cl_2
                2) Di[3-Chlorphenylamido]methan. Sm. 73° (B. 36, 46 C. 1903 [1] 505).
                3) Di 4-Chlorphenylamido] methan. Sm. 65° (B. 36, 46 C. 1903 [1] 505).
               *1) s-Diphenylthioharnstoff. Sm. 154-155° (B. 36, 3846 C. 1904 [1] 89;
C_{18}H_{12}N_2S
                    B. 37, 158 C. 1904 [1] 582; C. r. 139, 451 C. 1904 [2] 1114).
                8) \alpha-Phényl-\beta-[4-Chlor-2-Amidobenzyliden]hydrazin. Sm. 230° (B. 37.
C_{18}H_{12}N_8Cl
                    1873 C. 1904 [1] 1602).
                   Phenyl - 3 - Methylphenyljodoniumchlorid. Sm. 213°. + HgCl<sub>2</sub>, 2 + PtCl<sub>4</sub> (A. 327, 276 C. 1903 [2] 350).
C<sub>13</sub>H<sub>12</sub>ClJ
                1) Phenyl-3-Methylphenyljodoniumbromid. Sm. 1930 (A. 327, 276
C_{18}H_{12}BrJ
                    C. 1903 [2] 350).
C<sub>18</sub>H<sub>18</sub>ON *37) 4'-Amido-4-Methyldiphenyläther. Sm. 122°. HCl, (2HCl, PtCl<sub>4</sub> +
                    H<sub>2</sub>O), HBr (C. 1903 [1 | 634).
               42) 4'-Amido-2-Methyldiphenyläther. Sm. 60°. HCl. (2HCl., PtCl.).
               HBr, H<sub>2</sub>SO<sub>4</sub> (C. 1903 [1] 509).
43) 4'-Amido-3-Methyldiphenyläther. HCl (Am. 28, 488 C. 1903 [1] 327).
44) β-Oxy-α-Phenyl-α-[4-Pyridyl]äthan. Sm. 89—90°. (2 HCl, PtCl<sub>4</sub>)
(J. pr. [2] 69, 317 C. 1904 [1] 1613).
               45) N-Methyl-β-Naphtomorpholin. Sd. 220-222040. Camphersulfonat
                    (Soc. 83, 762 C. 1903 [1] 1419 C. 1903 [2] 448).
               46) Dimethylamid d. Naphtalin-I-Carbonsäure. Sm. 62°; Sd. 207° 208°<sub>16</sub> (B. 37, 2685 C. 1904 [2] 522; B. 37, 2817 C. 1904 [2] 649).
                                                                                Sm. 62°; Sd. 207° bis

*4) β-Phenylamido-α-Phenylharnstoff. Sm. 176° (B. 36, 1368 C. 1903 [1] 1342; J. pr. [2] 67, 263 Anm. C. 1903 [1] 1266).
22) α-Amido-αβ-Diphenylharnstoff. Sm. 165° (165,5°). HCl, (2 HCl, PtCl<sub>4</sub>) (B. 36, 1361 C. 1903 [1] 1340; B. 36, 1366 C. 1903 [1] 1342).

C_{18}H_{18}ON_3
               23) \alpha-Oximido-\alpha-Amido-\alpha-Diphenylamidomethan.
                                                                                     Sm. 161°.
                   Pikrat (B. 36, 3662 C. 1903 [2] 1325).
               24) α-Nitroso-α-Diphenylmethylhydrazin. Sm. 92-93° (J. pr. [2] 63,
                   136 C. 1903 [1] 875).
              25) 4-0xy-1-[2-Methylphenylamido]diazobenzol (B. 36, 4148 C. 1904
              26) 4-Oxy-1-[4-Methylphenylamido]diazobenzol. Zers. bei 63° (B. 36,
                   4147 C. 1904 [1] 186).
               27) Methyläther d. 4-Amido-3-Oxyazobenzol. Sm. 110,5-111,5° (B. 36,
                   4096 C. 1904 [1] 270).
                    C 61,2 - H 5,1 - O 6,2 - N 27,4 - M. G. 255.
C<sub>18</sub>H<sub>18</sub>ON<sub>5</sub>

    Amidd.1-[Methyl-α-Carboxyäthylamido]-4-Dicyanmethylenamido-
benzol. Sm. 244,5° (B. 36, 762 U. 1903 [1] 963).

                3) Phenyl-3-Methylphenyljodoniumoxydhydrat. Salze siehe (A. 327,
C_{13}H_{13}OJ
                    274 C. 1903 [2] 350).
               47) 2'-Amido-2,4-Dioxydiphenylmethan. Sm. 158-159°. H<sub>2</sub>SO<sub>4</sub> (M. 23,
C_{13}H_{13}O_{2}N
               985 C. 1903 [1] 289).
48) 4'-Amido-2,4-Dioxydiphenylmethan. Sm. 160-161° (M. 23, 979)
                    C. 1903 [1] 288).
               49) \alpha\beta-Dioxy-\alpha-Phenyl-\beta-[2-Pyridyl]äthan. Sm. 144—145°. HCl + 2 H<sub>2</sub>O,
                    (2 HCl, PtCl<sub>4</sub>), Pikrat (B. 36, 120 C. 1903 [1] 470).
               50) 8-Acetyl-1,2,3,4-Tetrahydronaphtostyril. Sm. 103-104° (B. 35,
                    4224 C. 1903 [1] 166).
               51) 1,2,3,4-Tetrahydrocarbazol-3-Carbonsäure (Soc. 85, 428 C. 1904
                    [1] 1439).
               52) Phenylimid d. \beta-Penten-\beta\gamma-Dicarbonsäure. Sd. 184% (B. 37, 1617)
                    C. 1904 [1] 1403).
C_{18}H_{18}O_{2}N_{8} 12) 2-Nitro-4,4'-Diamidodiphenylmethan. Sm. 100—101° (D. R. P. 139)889
                    C. 1903 [1] 798).
               13) \beta-[4-Oxyphenyl]amido-\alpha-Phenylharnstoff. Sm. 207° u. Zers. (A. 334,
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14) s-Dioxydiphenylguanidin. Sm. 135° u. Zers. (B. 37, 1539 C. 1904

 $C_{18}H_{18}O_8N$ *22) Aethylester d. α -Cyan- β -Oxy- β -Phonylakrylmethyläthersäure. Sm.

101,5° (C. r. 136, 691 C. 1903 [1] 920).

169 *C.* **1904** [2] 834).

[1] 1411).

- 28) 2'-Amido-2,4,6-Trioxydiphenylmethan. HCl (M. 23, 986 C. 1903 $C_{19}H_{19}O_{9}N$ [1] 289).
- *5) Aethylester d. Acetylphenylhydrazoncyanessigsäure. α-Modif. Sm. 158°; β-Modif. Sm. 166° (J. pr. [2] 67, 403 C. 1903 [1] 1346).
 11) I-Semicarbazon-3-Methylinden-2-Methylcarbonsäure. Sm. 218 bis $C_{19}H_{18}O_{9}N_{8}$
 - 219° u. Zers. (B. 37, 1621 C. 1904 [1] 1419).
 - 12) Lakton d. 3-Semicarbazon-1-Oxy-1-Methyl-2, 3-Dihydroinden-2-Methylcarbonsäure. Sm. 258-259° u. Zers. (B. 37, 1622 C. 1904 [1] 1419).
 - 13) Phenylamidoformiat d. Verb. C₆H₈O₂N₂. Sm. 178-180° (G. 34 [1] 48 C. 1904 [1] 1150).
- 5) Säure (aus Diphenylketon). Sm. 150-151°. Pb, Ag (C. r. 136, 509 C,,H,,O,P C. 1903 [1] 773).
- C₁₃H₁₃O₄N *15) Aethylester d. \(\alpha\$-Phtalylamidopropions\(\text{aure.} \) Sm. 65\(\text{0} \) (M. 25, 774
 - C. 1904 [2] 1121).
 Aethylester d. 4,5-Diketo-2-Phenyltetrahydropyrrol-3-Carbonsäure. Zers. bei 185°. NH₄, K, Cu + 2C₂H₄O₂, Ag (C. r. 138, 977) C. 1904 [1] 1415).
- 4) Acetat d. $4-\beta$ -Oximido- β -Phenyläthyl]-1,2,3,6-Dioxdiazin. $146-147^{\circ}$ (A. 380, 245 C. 1904 [1] 946). $C_{13}H_{13}O_4N_3$
- Säure (aus d. Säure C₁₃H₁₈O₃P).
 O. 1903 [1] 773). Sm. 184—185° (C. r. 136, 509 $C_{18}H_{18}O_4P$
- *2) Aethylester d. γ-Keto-α-[3-Nitrophenyl]-α-Buten-β-Carbonsäure. Sm. 110° (Soc. 83, 719 C. 1903 [2] 54). $C_{18}H_{18}O_5N$ 8) α-[4-Aethoxylphtalyl]amidopropionsäure. Sm. 146° (B. 37, 1978
 - C. 1904 [2] 236). Aethylester d. 4,5-Diketo-2-[2-Oxyphenyl]tetrahydropyrrol-3-Carbonsäure. Zers. bei 175°. NH_4 (C. r. 138, 979 C. 1904 [1] 1415). 9) Aethylester
- $C_{13}H_{13}O_5N_3$ $C \cdot 53,6 - H \cdot 4,5 - O \cdot 27,5 - N \cdot 14,4 - M. G. \cdot 291.$ 1) β -Acetat d. 4-[β -Oximido- β -4-Oxyphenyläthyl]-1,2,3,6-Dioxdiazin-4-Methyläther. Sm. 168-169° (A. 330, 243 C. 1904 [1] 945).
- *2) Aethylester d. 2-Nitrobenzoylacetessigsäure (Soc. 85, 151 C. 1904 $C_{18}H_{18}O_{6}N$ [1] 724).
- $C_{13}H_{13}O_7N$ *2) Acetonylnitromekonin (B. 36, 2208 C. 1903 [2] 443). C 50.2 - H 4.2 - O 41.1 - N 4.5 - M. G. 311. $C_{13}H_{13}O_8N$
 - Triacetat d. 3-Nitro-2-Oxy-1-Dioxymethylbenzol. Sm. 110° (B. 20, 2110; B. 37, 3931 C. 1904 [2] 1595). III, 70.
 Triacetat d. 5-Nitro-2-Oxy-1-Dioxymethylbenzol. Sm. 112°
 - (114—115°) (B. 20, 2110; B. 37, 3931 C. 1904 [2] 1595). III, 70.
- *1) 4'-Amido-4-Methyldiphenylsulfid. Sm. 720; Sd. 3650 u. ger. Zers. $C_{18}H_{13}NS$ HCl, (2 HCl, PtCl₄), HNO₃, H₂SO₄, Oxalat (J. pr. [2] 68, 265 C. 1903 [2] 992).
- *5) α -Amido- $\alpha\beta$ -Diphenylthioharnstoff. HCl (B. 37, 2331 C. 1904 [2] C13H18N8S 313).
- *1) α -Oxy-?-Diamidodiphenylmethan (*C.* 1903 [2] 442). C13H14ON2
 - *8) Methyläther d. 4, 4'-Diamido-2-Oxybiphenyl. Sm. 103-103,5°.

 - 2 HCl, Pikrat (B. 36, 4076 C. 1904 [1] 267).

 38) 4-Amido-4'-Oxy-3-Methyldiphenylamin. Sm. 160° (D.R.P. 139204 C. 1903 [1] 608; J. pr. [2] 69, 173 C. 1904 [1] 1268).

 39) 1-Benzoylamido-2,5-Dimethylpyrrol. Sm. 177-179° (B. 35, 4319)
- C. 1903 [1] 336).
 7) 3,4,3',4'-Tetraamidodiphenylketon. Sm. 155° (G. 34 [1] 380 C. 1904 $C_{18}H_{14}ON_4$ [2] 111).
 - 8) Methyloxydhydrat d. 2, 3-Diamido-5, 10-Naphtdiazin. Nitrat (A. 327, 119 C. 1903 [1] 1214).
- $C_{18}H_{14}O_2N_2$ 34) Säure (aus Diacetopropionsäureäthylester u. essigsaurem Phenylhydrazin). Sm. 210° u. Zers. Ag + H₂O (B. 37, 2194 C. 1904 [2] 240).
 - 35) Methylester d. α-Cyan-β-Aethylamido-β-Phenylakrylsäure. Sm. 123° (C. r. 136, 691 C. 1903 [1] 920).
 36) Aethylester d. α-Cyan-β-Methylamido-β-Phenylakrylsäure. Sm. 104
 - bis 105° (Bl. [3] 31, 343 C. 1904 [1] 1135).
- $C_{13}H_{14}O_{3}N_{2}$ 24) 3-Cyanphenylmonamid d. Bernsteinsäuremonoathylester. Sm. 84 bis $84,5^{\circ}$ (C. 1904 [2] 103).

- C 56.9 H 5.1 O 17.5 N 20.4 M. G. 274. $C_{13}H_{14}O_{3}N_{4}$
 - 1) Methylester d. 5-Acetylamido-1-Phenyl-1, 2, 3-Triazol-4-Carbonsaure. Sm. 81° (B. 35, 4059 C. 1903 [1] 171).
- 7) Cinnamoylamidoacetylamidoessigsäure. Sm. 229-230° (B. 37, 3067 $C_{13}H_{14}O_4N_2$ C. 1904 [2] 1207).
 - 8) Aethylester d. 2,5-Diketo-l-Phenyltetrahydroimidazol-4-Methylcarbonsäure. Sm. 122° (B. 36, 3342 C. 1903 [2] 1175).
- *1) Azid d. Benzoylbis [Amidoacetyl] amidoessigsäure. Sm. 1620 (J. pr. $C_{13}H_{14}O_4N_6$ [2] **70**, 84 *C*. **1904** [2] 1033).
- C 53.1 H 4.8 O 32.6 N 9.5 M. G. 294. $C_{13}H_{14}O_6N_2$
 - 1) α -Benzoylamidoacetylamidoathan- $\alpha\beta$ -Dicarbonsäure (Hippurylasparaginsäure). Sm. 191°. $(NH_4)_2$, Ba, Cu + $3H_2O$, Ag₂ (J. pr. [2] 70, 168 C. 1904 [2] 1396).
- C 50,3 H 4,5 -- O 36,1 - N 9,0 - M. G. 310. C13H14O7N2
 - 1) Lakton d. γ -Oximido- α -Oxy- α -[6-Nitro-3,4-Dimethoxylphenyl]butan-2-Carbonsäure (Oxim d. Acetonylnitromekonin). Sm. 1700 (B. 36. 2209 *C.* **1903** [2] 443).
- C₁₃H₁₄N₂Br₂ 1) 2-Bromallylat d. 5-Brom-3-Methyl-1-Phenylpyrazol. Sm. 196° (A. 331, 211 C. 1904 [1] 1219).
- 1) 2-Jodallylat d. 5-Jod-3-Methyl-1-Phenylpyrazol. Sm. 2030 (A. 331. $C_{13}H_{14}N_2J_2$ 212 C. 1904 [1] 1219).
- 2) Allyläther d. 5-Merkapto-3-Methyl-I-Phenylpyrazol. Sm. 56-57°;
 30. 184-188°₁₁ (A. 331, 237 C. 1904 [1] 1221). $C_{13}H_{14}N_2S$
 - 3) 3-Thiocarbonyl-5-Methyl-1-Allyl-2-Phenyl-2, 3-Dihydropyrazol (Allylthiopyrin). Sm. 123° (A. 331, 213 C. 1904 [1] 1219).
- 20) 2-Methyläthylamido-I-Oxynaphtalin. Sm. 25-27°; Sd. 193°, C,8H,5ON Camphersulfonat + H₂O (Soc. 83, 761 C. 1903 [1] 1419 C. 1903 [2] 448).
 - 21) 3-Keto-1-Isoamylpseudoisoindol. Sm. 1150 (\tilde{C} . r. 138, 988 \tilde{C} . 1904 [1] 1446).
- C13H15ON8 3) ϵ - Semicarbazon - α - Phenyl - $\alpha\gamma$ - Hexadiën. Sm. 186° (B. 36, 4381) C. **1904** [1] 455).
- $C_{18}H_{15}O_2N$ *16) Phenylimid d. mal. Pentan- $\beta\delta$ -Dicarbonsäure. Sm. 207° (Bl. [3] 29, 1019 C. 1903 [2] 1315).
 - *22) Phenylimid d. β -Methylbutan- $\gamma\delta$ -Dicarbonsäure. Sm. 88° (B. 36, 1751 C. 1903 [2] 117).
 - 41) δ-Oximido-γ-Keto-α-[4-Isopropylphenyl] α-Buten. Sm. 162—163° (C. 1904 [1] 28; A. 330, 254 C. 1904 [1] 946).
 - 42) 2-Keto-1-Acetyl-3-Isopropyl-2, 3-Dihydroindol. Sm. 1040 (M. 24,
 - 574 C. 1903 [2] 887).
 43) 4-Methyl-2-[ββ'-Dioxyisopropyl]chinolin. Sm. 140°. HCl, (2HCl, PtCl₄ + H₂O) (B. 37, 1329 C. 1904 [1] 1360).
 44) 4-Oxy-1-Keto-3-Isobutyl-1,2-Dihydroisochinolin. Sm. 171—173°

 - (B. 37, 1695 C. 1904 [1] 1525).
 - 45) Aethyläther d. 6 Oxy 2 Keto 1 Aethyl-1, 2-Dihydrochinolin. Sm. 84° (B. 36, 458 C. 1903 [1] 590). 46) d-sec. Amylimid d. Benzol-1, 2-Dicarbonsäure. Sm. 23°; Sd. 303°
 - (B. **37**, 1047 C. 1904 [1] 1249).
 - 47) Benzoat d. d-3-Oximido-1-Methyl-R-Pentamethylen. Sm. 60-61° (A. 332, 349 C. 1904 [2] 653).
 - 48) Isoamylimid d. Benzol 1, 2 Dicarbonsäure. Sm. 12,5°; Sd. 307 bis 308° (B. 23, 998; B. 37, 1047 C. 1904 [1] 1249). II, 1804.
- (10) Aethylester d. 2, 4 Dimethylphenylhydrazoncyanessigsäure. Sm. 166° (J. pr. [2] 67, 409 C. 1903 [1] 1347).
 15) Acetat d. 5-Oxy-3-Propyl-1-Phenyl-1, 2, 4-Triazol. Sm. 84° (B. 36, $C_{18}H_{15}O_2N_3*10$) Aethylester
 - 1099 C. 1903 [1] 1140).
 - 16) Nitril d. 2,6-Diketo-4-Hexyl-1,2,3,6-Tetrahydropyridin-3,5-Dicarbonsaure. NH4, Nikotinsalz (C. 1903 [2] 193).
 - Verbindung (aus Benzylidenacetylaceton u. Semicarbazid). Sm. 210°
 u. Zers. (Soc. 85, 467 C. 1904 [1] 1080, 1438).
- C13H15O2C1 Aethylester d. β-Chlor-α-Phenyl-β-Buten-α-Carbonsäure. Sd. 159 bis 161°₁₈ (B. 36, 2245 C. 1903 [2] 435).
 Dimethyläther d. 6, 7 - Dioxy - 1 - Keto-2-Aethyl-1, 2-Dihydroiso-
- $C_{13}H_{15}O_{8}N$ chinolin. Sm. 60-62°. HCl (B. 37, 3402 C. 1904 [2] 1318).

 $\mathbf{C}_{13}\mathbf{H}_{15}\mathbf{O}_{3}\mathbf{N}$ 21) 8-Acetylamido-1,2,3,4-Tetrahydronaphtalin-1-Carbonsäure. Sm. 181—182° (B. 35, 4224 C. 1903 [1] 166).

 22) γ - Phenylamid d. β-Oxy-β-Methylbutan - γ δ - Dicarbonsäure - β δ-Lakton. Sm. 176° (C. r. 139, 293 C. 1904 [2] 692.
 23) α-Phenylmonamid d. cis - γ - Methyl - α - Buten-αγ-Dicarbonsäure. Sm. 162° (164° u. Zers.) (C. r. 136, 382 C. 1903 [1] 697; Soc. 83, 15 C. 1903 [1] 443).

24) 4-Methylphenylmonamid d. α -Buten- $\beta\delta$ -Dicarbonsäure. Sm. 154 bis 155° (B. 36, 1203 C. 1903 [1] 1175).

25) 4 - Aethoxylphenylimid d. Propan - α β - Dicarbonsäure.

(G. 34 [2] 272 C. 1904 [2] 1454). 5) $4 - [\beta - Oximido - \beta - 4 - Isopropylphenyläthyl] -1,2,3,6-Dioxdiazin.$ $C_{13}H_{15}O_3N_3$ Sm. 187° (A. 330, 244 C. 1904 [1] 946).

6) Verbindung (aus Dicyanbenzoylessigsäureäthylester). Sm. 176° (A. 332, 150 C. 1904 [2] 192).
C 54,0 — H 5,2 — O 16,6 — N 24,2 — M. G. 289.

 $C_{13}H_{15}O_{3}N_{5}$

- 1) Azid d. β-Benzoylamidoacetylamidobuttersäure. Zers. bei 73° (J. pr. [2] 70, 212 C. 1904 [2] 1460).
- 2) Azid d. α-[α-Benzoylamidopropionyl]amidopropionsäure (J. pr. [2] 70, 151 C. 1904 [2] 1394).
- 17) Dimethylester d. cis-1-[?-Amidophenyl]-R-Trimethylen-trans-2, 3- $C_{13}H_{15}O_4N$ Dicarbonsäure. HCl (B. 36, 3781 C. 1904 [1] 42).

C13H15O4N7

C 46,8 — H 4,5 — O 19,2 — N 29,4 — M. G. 333.

1) Azid d. β-Phenylureïdoacetylamidoacetylamidoessigsäure. (J. pr. [2] 70, 262 C. 1904 [2] 1465).

17) α -Benzoylamidobutan- $\alpha\delta$ -Dicarbonsäure (C. 1903 [2] 34). $C_{13}H_{15}O_5N$

- 18) Diäthylester d. Phenylamin-N-Carbonsäure-N-Ketocarbonsäure. Sm. 68°; Sd. 188—190°₈₋₉ (B. 37, 3683 C. 1904 [2] 1495).
 19) β-Benzylamid d. i-α-Acetoxyläthan-αβ-Dicarbonsäure. Sm. 111° (B. 37, 2126 C. 1904 [2] 439).
 *7) Benzylbis[Amidoacetyl]amidoessigsäure. Sm. 215—216°. Ag (J. pr. 50) 70 (1) (1004 [2] 1003).
- $C_{15}H_{15}O_5N_8$ [2] **70**, 81 *O*. **1904** [2] 1033).

1) Phenolbromglykosid. Sm. 170—180° (C. 1903 [2] 1446). $C_{18}H_{15}O_5Br$

- 11) Methylester d. β-Nitro-γ-Acetoxyl-γ-Phenylbuttersäure.
 (A. 329, 253 C. 1904 [1] 31). $C_{13}H_{15}O_6N$
 - 12) Dimethylester d. Iso-β-[2-Nitrophenyl] propan-αη-Dicarbonsäure. Sm. 65,5° (B. 36, 2673 C. 1903 [2] 948).
 1) Brom-4-Dimethylamidophenylat d. Pyridin (J. pr. [2] 70, 51 C. 1904 (D. 1903).
- $C_{13}H_{15}N_2Br$ 2] 1236).
- C₁₃H₁₆ON₂ *15) 5-Keto-4-Methyl-3-Propyl-1-Phenyl-4, 5-Dihydropyrazol. Sm. 100° (Bl. [3] 27, 1102 C. 1903 [1] 227).
 - 19) 4-Dimethylamidophenylhydroxyd d. Pyridin. Salze siehe (J. pr. [2] 70, 51 O. 1904 [2] 1236. 20) Nitril d. α -[2-Oxyphenyl]- α -[1-Piperidyl]essigsäure. Sm. 89—90°
- (B. 37, 4086 C. 1904 [2] 1724). $C_{13}H_{16}O_{2}N_{2}$
 - 24) γδ-Dioximido-α-[4-Isopropylphenyl]α-Buten. Sm. 192° u. Zers. (C. 1904 [1] 28; A. 330, 255 C. 1904 [1] 946).
 25) Phenylhydantoin d. d-Isoleucin. Sm. 78—79° (B. 37, 1830 C. 1904).
 - [1] 1645). 26) Nitril d. α -Diäthylamido- α -[3, 4-Dioxyphenyl]essig-3, 4-Methylen-sthersäure. Sm. 43—44°; Sd. 179,5°_{12,5} (B. 37, 4091 C. 1904 [2] 1725).
 - 27) Amid d. α-Cyan-β-[4-Isopropylphenyl] propionsäure. Sm. 144°
 (4. 325, 217 C. 1903 [1] 439).
- 2) Amid d. 3-Keto-1,5-Dimethyl-2-Phenyl-2,3-Dihydropyridin-4-Amidoessigsäure. Sm. 194—195° (Bl. [3] 29, 967 C. 1903 [2] 1118). $C_{13}H_{16}O_{2}N_{4}$
- 2) Isobutylester d. $\alpha\beta$ -Dibrom- β -Phenylpropionsäure. Sm. 59-60° (Soc. 83, 677 C. 1903 [2] 115). $\mathbf{C_{13}H_{16}O_{2}Br_{2}}$
- $C_{13}H_{16}O_3N_2$ *13) Phenylmonamid d. β -Imidopropan- $\alpha\alpha$ -Dicarbonsäuremonoäthylester. Sm. 125—126° (A. 329, 345 C. 1904 [1] 435).
 - 16) 3-Nitro-4-Methylphenylamid d. α-Penten-α-Carbonsäure. Sm. 87°
 - (B. 37, 2000 C. 1904 [2] 24). 17) Verbindung (aus Oxybenzol u. Harnstoff). Sm. 61° (J. 1886, 548). II, 651.

- C, H, O, N, *5) Aethylester d. Benzovlamidoacetylamidoessigsäure. Sm. (J. vr. [2] 70, 77 C. 1904 [2] 1033; J. pr. [2] 70, 194 C. 1904 [2] 1398).
 - 11) β -Benzoylamidoacetylamidobuttersäure. Sm. 122°. NH₄, Ag (J. pr.
 - [2] 70, 205 C. 1904 [2] 1459).
 12) γ-Benzoylamidoacetylamidobuttersäure. Sm. 176°. NH₄, Ag (J. pr. [2] **70**, 225 *C*, **1904** [2] 1461).
 - 13) α -[α -Benzoylamidopropionyl]amidopropionsäure. Sm. 170—1710 (J. pr. [2] 70, 148 C. 1904 [2] 1394).
 - 14) Methylester d. α-Benzoylamidoacetylamidopropionsäure. Sm. 136° (J. pr. [2] 70, 117 C. 1904 [2] 1036).
 - 15) Dimethylester d. 2,4-Dimethylphenylhydrazonmethan-aa-Dicarbonsäure. Sm. 93° (B. 37, 4179 C. 1904 [2] 1705).
- 2) Nitril d. 6-Oxy-2-Keto-4-[3-Nitrophenyl]-2,5-Dihydropyridin-3,5-C, 3H, 04N4 Dicarbonsaure. Zers. bei 260°. NH₄, Ba + 7H₂O, (Cu + $1\frac{1}{2}$ NH₃ + $1\frac{1}{2}$ H₂O), Ag + 4H₂O (C. 1904 [1] 877).
 - Amid d. α-Benzoylamidoacetylamidoäthan-αβ-Dicarbonsäure. Sm. 223 ° u. Zers. (J. pr. [2] 70, 179 C. 1904 [2] 1396).
 - 4) Verbindung (aus Dicyanbenzoylessigsäureäthylester). Sm. 155° u. Zers. (A. 332, 152 C. 1904 [2] 192).
- 4) Aethylester d. $\alpha\beta$ -Dibrom- β -[3,4-Dioxyphenyl]akryl-3,4-Dimethyläthersäure. Sm. 111° (C. 1903 [1] 580; Soc. 85, 164 C. 1904 [1] 724). C₁₈H₁₈O₄Br₂
- 2) 5-Keto-3-Phenyl-1-Methylhexahydrobenzol-3-Sulfonsäure. Ba C, H, O, S (B. 37, 4041 C. 1904 [2] 1647).
- $C_{18}H_{18}O_4S_2$ 1) 2,4-Di[Allylsulfon]-1-Methylbenzol. Sm. 89-90° (J. pr. [2] 68, 336 C. 1903 [2] 1172).
- *7) Inn. Anhydrid d. d-Phenylamidoformylglykosamin. Sm. 210-2110 $C_{18}H_{18}O_{5}N_{2}$ (B. 36, 29 C. 1903 [1] 446).
 - *8) & Lakton d. Glyazindihydrotetramethyldimalonsäuremethylester. Sm. 177 (Soc. 83, 1257 C. 1903 [2] 1423).
- $C_{13}H_{16}O_5N_4$ C 50.6 - H 5.2 - O 26.0 - N 18.2 - M. G. 308.
 - 1) \(\beta\)-Phenylureïdoacetylamidoacetylamidoessigsäure. Sm. 184° (J. pr. [2] **70**, 259 *C*. **1904** [2] 1465).
- *1) Aethylester d. α-[4-Methylphenylthiosulfon]acetessigsäure. Sm. 62° C18H18O5S2
 - (J. pr. [2] 70, 376 C. 1904 [2] 1719).
 2) Aethylester d. α-[2-Methylphenylthiosulfon]acetessigsäure.
 (J. pr. [2] 70, 382 C. 1904 [2] 1719).
- $C_{13}H_{16}O_6N_2$ 5) d-Phenylamidoformylglykosaminsäure (Tetraoxybutyl-N-Phenylhy
 - dantoïn). Sm. 199—201° (B. 35, 4013 C. 1903 [1] 390). 6) $\alpha \gamma$ -Laktam d. $\beta \gamma$ -Diimido- ε -Ketohexan- $\alpha \alpha \delta$ -Tricarbonsäure- $\alpha \delta$ -Diäthylester. Sm. 103—137° (A. 332, 129 C. 1904 [2] 189).
- 1) 2,4-Di[Acetonylsulfon]-1-Methylbenzol. Sm. 127° (J. pr. [2] 68, C13H16O6S2 337 C. 1903 [2] 1172).
 - 2) Aethylester d. α-[4-Methoxylphenylthiosulfon]acetessigsäure. Fl.
- (J. pr. [2] 70, 390 C. 1904 [2] 1721).

 2) Aethyläther d. 5-Merkapto-3,4-Dimethyl-I-Phenylpyrazol. 316—318° (A. 331, 244 C. 1904 [1] 1221). C13H16N2S
 - 3) Isopropyläther d. 5-Merkapto-3-Methyl-1-Phenylpyrazol. Sd. 309 bis 310° (A. 331, 235 C. 1904 [1] 1221).
- *5) α-Oximidobenzylhexahydrobenzol. Sm. 157° (C. r. 139, 345 C. 1904 C18H17ON [2] 705).
 - 25) Methyläther d. 4-[4-Oxybenzoyl]methyl-1,2,3,6-Dioxdiazin. Sm. 159—160° (A. 330, 244 C. 1904 [1] 945).
 26) Nitril d. 3-Oxy-?-tert. Butyl-1-Methylbenzol-?-Carbonsäure. Sm.
 - 117° (D.R.P. 84336). *II, 938.
 - 27) 4-Methylphenylamid d. α-Penten-α-Carbonsäure. Sm. 125°; Sd. 205 bis 215°₁₃ (B. 37, 2000 C. 1904 [2] 24). 28) 4-Methylphenylamid d. α-Penten-s-Carbonsäure. Sm. 75°; Sd. 220°₁₄
 - (B. 37, 2000 C. 1904 [2] 24).
 - 29) 4-Methylphenylamid d. β -Penten- α -Carbonsäure. Sm. 95,5° (B. 37, 2000 C. 1904 [2] 24).
 - 30) 4-Methylphenylamid d. β-Penten-ε-Carbonsäure. Sm. 103°; Sd. 200 bis 205 % (B. 37, 2000 C. 1904 [2] 24).

- *2) 4-Dimethylamido-3-Keto-1, 5-Dimethyl-2-Phenyl-2, 3-Dihydropyr-C18H17ON3 azol (C. 1897 [1] 1006; D.R.P. 144393 C. 1903 [2] 777; D.R.P. 145603 C. 1903 [2] 1225).
 - *6) γ -Semicarbazon- α -Phenyl- δ -Methyl- α -Penten. Sm. 166—167° (Soc. 81, 1489 C. 1903 [1] 138).
 - 8) Isopropylidenhydrazid d. 2-Isopropylidenamidobenzol-1-Carbonsäure. Sm. 244° (J. pr. [2] 69, 98 C. 1904 [1] 730).
- 2) Hydrochlorid d. Benzalpinakolin. Sm. 33-340 (B. 36, 1480; B. 36, C₁₃H₁₇OCl 3535 C. 1903 [2] 1368).
- 1) Hydrobromid d. Benzalpinakolin. Sm. 44° (B. 36, 3534 C. 1903 $C_{13}H_{17}OBr$ [2] 1368).
- 24) Methyläther d. 1-[4-Oxybenzoyl]hexahydropyridin. Sd. 220-2220,14 $C_{13}H_{17}O_{2}N$ (B. 36, 3525 C. 1903 [2] 1326).
 - 25) Aethylester d. 1, 2, 3, 4-Tetrahydroisochinolin-2-Methylearbonsäure. Sd. 184—185° 16 (B. 36, 1161 C. 1903 [1] 1186).
 26) Phenylamidoformiat d. Oxyhexahydrobenzol. Sm. 82,5° (Bl. [3] 29,
 - 1052 C. 1903 [2] 1437).
- 8) Isopropylidenhydrazid d. a-Benzoylamidopropionsäure. Sm. 157,50 $C_{18}H_{17}O_{2}N_{3}$
- (J. pr. [2] 70, 144 C. 1904 [2] 1394). $C_{18}H_{17}O_8N$ *27) Phenylmonamid d. mal. Pentan- $\beta\delta$ -Dicarbonsäure. Sm. 155—156° (Bl. [3] 29, 1019 C. 1903 [2] 1315).
 - *29) Phenylmonamid d. cis-β-Methylbutan-αγ-Dicarbonsäure. Sm. 149° (147°) (Soc. 83, 358 C. 1903 [1] 389, 1122; C. r. 136, 243 C. 1903 [1] 565).
 - *42) r-u-Benzoylamido-γ-Methylvaleriansäure. Sm. 139—140° (Bl. [3] 31, 1182 C. **1904** [2] 1710).
 - *58) Phenylmonamid d. β -Methylbutan- $\alpha\delta$ -Dicarbonsäure. Sm. 100 bis 103° (C. 1903 [2] 288).
 - 62) a-Methylhydrocotarnin. Fl. (2HCl, PtCl₄), HBr, HJ, H₂SO₄ (B. 36, 4258 C. 1904 [1] 382).
 - 63) Benzoyl-d-Isoleucin. Sm. 116-117° (B. 37, 1827 C. 1904 [1] 1645).
 - 64) Aethylester d. 4-Methylphenylimidooxyessigäthyläthersäure. Sd. 160-162°₁₄₋₁₅ (Soc. 85, 989 C. 1904 [2] 830).
 - 65) d-sec. Amylmonamid d. Benzol-1, 2-Dicarbonsäure. Sm. 1230 (B. 37, 1048 C. **1904** [1] 1249).
 - 66) norm. Propylester d. Phenylacetylamidoessigsäure. Sm. 31° (J. pr. [2] 38, 106). — II, 1313. 67) isom. Phenylmonamid d. cis- β -Methylbutan- $\alpha\gamma$ -Dicarbonsäure.
 - Sm. 127° (Bl. [3] 29, 336 C. 1903 [1] 1216).
- 4) α-Phenylpropylester d. α-Semicarbazonpropionsäure. Sm. 143° C13H17O3N3 (C. r. 138, 985 C. 1904 [1] 1398).
 - 5) Amid d. β -Benzoylamidòacetylamidobuttersäure. Sm. 173° (J. pr. [2] 70, 213 C. 1904 [2] 1460). 6) 2-Nitro-4-Methylphenylamid d. Hexahydropyridin-l-Carbonsäure.
- Sm. 152° (Bl. [3] 31, 23 C. 1904 [1] 521). C₁₈H₁₇O₃Br₃ 1) u, 3-Dimethyläther -4-Aethyläther d. 2,5-Dibrom-3,4-Dioxy-1- $[\beta-\text{Brom-}\alpha-\text{Oxypropyl}]$ benzol. Sm. 63-64° (B. 37, 1132 C. 1904 [1]
- 1261)26) 2,4,5-Trimethyläther d. γ -Oximido- α -[2,4,5-Trioxyphenyl] butan. Sm. 145° (Ar. 242, 102 C. 1904 [1] 1008). $C_{18}H_{17}O_{4}N$
 - 27) α -Phenylamidoformoxyl- β -Methylbutan- β -Carbonsäure. Sm. 114 bis 115° (Bl. [3] 31, 322 C. 1904 [1] 1134).
 - 28) 4-Aethoxylphenylamid d. α-Acetoxylpropionsäure. Sm. 129° (B. 37, 3974 C. 1904 [2] 1605).
- 6) δ -[4-Nitrophenyl]hydrazon- β -Methylpentan- β -Carbonsäure. Sm. 190° (Soc. 85, 1221 C. 1904 [2] 1108). $C_{13}H_{17}O_4N_3$ 7) α -Bisamidoacetylamido- β -Phenylpropionsäure. Sm. 238—239° (B. 37,
 - 3315 C. 1904 [2] 1307). 8) α -Amido- β -Phenylpropionylamidoacetylamidoessigsäure. Sm. 235°
 - u. Zers. (B. 37, 3066 C. 1904 [2] 1207).
 9) Aethylester d. β-Phenylureidoacetylamidoessigsäure.
 - (J. pr. [2] 70, 252 C. 1904 [2] 1464). Benzoylamidoacetylamidomethylamidoameisen-10) Aethylester d. säure. Sm. 200° (J. pr. [2] 70, 80 C. 1904 [2] 1033).

 $C_{13}H_{17}O_4N_5$ *1) Hydrazid d. Benzoylbis[Amidoacetyl]amidoessigsäure. Sm. 245 bis 250° u. Zers. (J. pr. [2] 70, 83 C. 1904 [2] 1033).

Oxim d. Glyazindihydrotetramethyldimalonsär Lakton. Sm. 136° (Soc. 83, 1258 C. 1903 [2] 1423)

2) Diacetat d. 4-Jodoso-I-Propylbenzol. Sm. 1016 (A. 327, 305 C. 1903

3) Diacetat d. 4-Jodoso-3-Aethyl-1-Methylbenzol (J. pr. [2] 69, 438

Glyazindihydrotetramethyldimalonsäuremethylester-s-

 $C_{13}H_{17}O_4J$

 $C_{13}H_{17}O_5N_3$

C18H17O8N

2] 353).

C. 1904 [2] 589).

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2) 3-Nitrobenzylidendulcit. Sm. 256,5° (Bl. [3] 29,506 C. 1903 [2] 237).
3) 4-Nitrobenzylidendulcit. Sm. 186° (Bl. [3] 29,506 C. 1903 [2] 237).
4) 2-Nitrobenzyliden-d-Mannit. Sm. 214° (R. 19, 179). — *III, 9.
5) 3-Nitrobenzyliden-d-Mannit. Sm. 247° (R. 19, 179). — *III, 10.
                           6) 4-Nitrobenzyliden-d-Mannit. Sm. 1620 (198,50) (R. 19, 179; Bl. [3]
                                29, 504 C. 1903 [2] 237). — *III, 10.
                           7) 4-Nitrobenzyliden-d-Sorbit. Sm. 150° (204,5°) (R. 19, 179; Bl. [3]
                                29, 505 C. 1903 [2] 237). — *III, 10.
                        17) Nitril d. \alpha-Diäthylamido-\alpha-[4-Oxyphenyl] essigmethyläthersäure.
C_{18}H_{18}ON_2
                                 Sm. 44°; Sd. 166°<sub>11</sub> (B. 37, 4090 C. 1904 [2] 1725).
                         18) 2-Methylphenylamid d. Hexahydropyridin-l-Carbonsäure. Sm. 1130
                                 (Bl. [3] 29, 410 C. 1903 [1] 1363).
                         19) 4-Methylphenylamid d. Hexahydropyridin-l-Carbonsäure. Sm. 143°
                                 (Bl. [3] 29, 410 C. 1903 [1] 1363).
                         20) Phenylhydrazid d. Hexahydrobenzolcarbonsäure. Sm. 164° (B. 36,
\begin{array}{c} 1095 \ \textit{C.} \ 1903 \ [1] \ 1139). \\ \textbf{C}_{18}\textbf{H}_{18}\textbf{O}_{2}\textbf{N}_{2} * 10) \ \delta - \textbf{Phenylhydrazon} - \beta - \textbf{Methylpentan} - \beta - \textbf{Carbonsäure.} \quad \text{Sm. } 135^{\circ} \end{array}
                                 (Soc. 85, 1221 C. 1904 [2] 1108).
                        20) 3 - Nitroso - 4,4,6 - Trimethyl - 2 - Phenyltetrahydro - 1,3 - Oxazin.
                        Sm. 108-111^{\circ} (M. 25, 862 C. 1904 [2] 1241).
21) \alpha-Phenylhydrazon-\beta\beta-Dimethylbutan-\alpha-Carbonsäure. Sm. 1466
                                (A. 327, 207 C. 1903 [1] 1407).
C_{18}H_{18}O_{3}N_{2} 13) r-\alpha-[Phenylamidoformyl]amidoisocapronsäure. Sm. 165° u. Zers.
                                (B. 37, 2492 Anm. C. 1904 [2] 425).
                        14) Phenylamidoformyl-d-Isoleucin. Sm. 119-120 ° (B. 37, 1829 C. 1904
                                [1] 1645).
                                                  - H 6,5 — O 17,3 — N 20,1 — M. G. 278.
                                C 56,1 -
C, 3H, O3N,

    Hydrazid d. β-Benzoylamidoacetylamidobuttersäure.
    HCl (J. pr. [2] 70, 207 C. 1904 [2] 1459).

                           2) Hydrazid d. γ-Benzoylamidoacetylamidobuttersäure. Sm. 165—167°
                               u. Zers. (J. pr. [2] 70, 226 C. 1904 [2] 1461).

    3) Hydrazid d. α-[α-Benzoylamidopropionyl]amidopropionsäure.
    Sm. 183-184° (J. pr. [2] 70, 151 C. 1904 [2] 1394).

C_{18}H_{18}O_{8}Br_{2} 1) \alpha, 3-Dimethyläther-4-Aethyläther d. 2-Brom-3, 4-Dioxy-1-[\beta-Brom-
                                \alpha-Oxypropyl]benzol. Sm. 63-64° (B. 37, 1131 C. 1904 [1] 1261).
                          6) Asthylester d. 1-\alpha-Amidoacetylamido-\beta-[4-Oxyphenyl] propionsäure. HCl (B. 37, 2496 C. 1904 [2] 425). C 53,1 — H 6,1 — O 21,8 — N 19,0 — M. G. 294.
C_{18}H_{18}O_4N_2
C<sub>18</sub>H<sub>18</sub>O<sub>4</sub>N<sub>4</sub>
                            1) Aethylester d. \alpha-[\alpha-Phenylamidoformylsemicarbazido] propion-
                                 saure. Sm. 163° (C. 1904 [2] 1029).
C 48,4 — H 5,6 — O 19,9 — N 26,1 — M. G. 322.
 C18H18O4N6
                            l) Hydrazid d. \beta-Phenylureïdoacetylamidoacetylamidoessigsäure.
                                 Sm. 241° u. Zers. HCl (J. pr. [2] 70, 261 C. 1904 [2] 1465).
                            2) Hydrazid d. α-Benzoylamidoacetylamidoäthan-αβ-Dicarbonsäure.
2) Hydrazid d. a-Benzoyiainidoaeesyiainidoaeesyiainidoaeesyiainidoaeesyiainidoaeesyiainidoaeesyiainidoaeesyiainidoaeesyiainidoaeesyiainidoaeesyiainidoaeesyiainidoaeesyiainidoaeesyiainidoaeesyiainidoaeesyiainidoaeesyiainidoaeesyiainidoaeesyiainidoaeesyiainidoaeesyiainidoaeesyiainidoaeesyiainidoaeesyiainidoaeesyiainidoaeesyiainidoaeesyiainidoaeesyiainidoaeesyiainidoaeesyiainidoaeesyiainidoaeesyiainidoaeesyiainidoaeesyiainidoaeesyiainidoaeesyiainidoaeesyiainidoaeesyiainidoaeesyiainidoaeesyiainidoaeesyiainidoaeesyiainidoaeesyiainidoaeesyiainidoaeesyiainidoaeesyiainidoaeesyiainidoaeesyiainidoaeesyiainidoaeesyiainidoaeesyiainidoaeesyiainidoaeessyiainidoaeessyiainidoaeessyiainidoaeessyiainidoaeessyiainidoaeessyiainidoaeessyiainidoaeessyiainidoaeessyiainidoaeessyiainidoaeessyiainidoaeessyiainidoaeessyiainidoaeessyiainidoaeessyiainidoaeessyiainidoaeessyiainidoaeessyiainidoaeessyiainidoaeessyiainidoaeessyiainidoaeessyiainidoaeessyiainidoaeessyiainidoaeessyiainidoaeessyiainidoaeessyiainidoaeessyiainidoaeessyiainidoaeessyiainidoaeessyiainidoaeessyiainidoaeessyiainidoaeessyiainidoaeessyiainidoaeessyiainidoaeessyiainidoaeessyiainidoaeessyiainidoaeessyiainidoaeessyiainidoaeessyiainidoaeessyiainidoaeessyiainidoaeessyiainidoaeessyiainidoaeessyiainidoaeessyiainidoaeessyiainidoaeessyiainidoaeessyiainidoaeessyiainidoaeessyiainidoaeessyiainidoaeessyiainidoaeessyiainidoaeessyiainidoaeessyiainidoaeessyiainidoaeessyiainidoaeessyiainidoaeessyiainidoaeessyiainidoaeessyiainidoaeessyiainidoaeessyiainidoaeessyiainidoaeessyiainidoaeessyiainidoaeessyiainidoaeessyiainidoaeessyiainidoaeessyiainidoaeessyiainidoaeessyiainidoaeessyiainidoaeessyiainidoaeessyiainidoaeessyiainidoaeessyiainidoaeessyiainidoaeessyiainidoaeessyiainidoaeessyiainidoaeessyiainidoaeessyiainidoaeessyiainidoaeessyiainidoaeessyiainidoaeessyiainidoaeessyiainidoaeessyiainidoaeessyiainidoaeessyiainidoaeessyiainidoaeessyiainidoaeessyiainidoaeessyiainidoaeessyiainidoaeessyiainidoaeessyiainidoaeessyiainidoaeessyiainidoaeessyiainidoaeessyiainidoaeessyiainidoaeessyiainidoaeessyiainido
                            2) Diäthylester d. \delta \varepsilon-Diimido-\beta-Ketohexan-\gamma \zeta \zeta-Tricarbonsäure.
                            Sm. 160° (A. 332, 145 C. 1904 [2] 191).

1) Jodmethylat d. 3-Methylimido-1,5-Dimethyl-2-Phenyl-2,3-Di-
 C_{13}H_{18}N_{3}J
                        hydropyrazol. Sm. 183° (B. 36, 3286 C. 1903 [2] 1190).
*28) 4-tert. Amylphenylamid d. Essigsäure. Sm. 138—139° (A. 327, 222
 C_{18}H_{19}ON
                                  C. 1903 [1] 1408).
                          30) O-Aethylcyancampher (C. r. 136, 789 C. 1903 [1] 1085).
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- C13H19ON 31) 4, 4, 6-Trimethyl-2-Phenyltetrahydro-1, 3-Oxazin. Sd. 131%. (2HCl, PtCl₄), (HCl, AuCl₃) (M. 25, 859 C. 1904 [2] 1241).
- C₁₃H₁₉O₂N *33) 2-Methylphenylester d. Diäthylamidoessigsäure. Fl. HCl, HBr,
 - HJ (4r. 240, 634 C. 1903 [1] 24). *34) 3-Methylphenylester d. Diäthylamidoessigsäure. Fl. HCl, Br (Ar. 240, 635 C. 1903 [1] 24).
 - *35) 4-Methylphenylester d. Diäthylamidoessigsäure. Fl. HBr, Pikrat (Ar. 240, 635 C. 1903 [1] 24).
 - 44) Betain d. α-Methyldiäthylamidophenylessigsäure. (B. 36, 4193 C. 1904 [1] 263).
 - 45) norm. Hexylester d. Phenylamidoameisensäure. Sm. 42° (C. r. 138, 149 C. **1904** [1] 577).
 - 46) Benzoat d. α-Dimethylamido-β-Oxy-β-Methylpropan. Sm. (C. r. 138, 767 C. 1904 [1] 1196).
 10) Diäthylamidoacetat d. 1, 2-Dioxybenzolmonomethyläther. Sm. 2020
- C₁₈H₁₉O₈N *10) Diäthylamidoacetat d. Fl. HCl, (2HCl, PtCl₄), HBr (Ar. 240, 637 C. 1903 [1] 24).
 - 11) Dimethyläther 4-Acetylamido-2, 5-Dioxy-1-Propylbenzol. Sm. 104° (B. 36, 857 C. 1903 [1] 1084).
 - 12) Dimethyläther d. 6-Acetylamido-3, 4-Dioxy-I-Propylbenzol. Sm. 144° (B. 36, 860 C. 1903 [1] 1085).

 13) Methylester d. 1-Methyl-1, 2, 3, 4-Tetrahydrochinoliniumessig-
 - d-Camphersulfonat, d-Bromcamphersulfonat (Soc. 83, 1416 C. **1904** [1] 439).
- $C_{13}H_{19}O_3Br$ *1) u, 3-Dimethyläther-4-Aethyläther d. β -Brom- α -Oxy- α -[3,4-Dioxy-phenyl]propan. Sm. 69—70° (B. 37, 1130 (B. 1904 [1] 1261).
- 1) Aethylester d. o-Jodcamphocarbonsäure. Sm. 42-43° (B. 36, 1727 $C_{13}H_{19}O_3J$ C. 1903 [2] 37).
- stab. 2,6-Dimethyl-1,4-Dihydropyridin-3,5-Di-*4) Diäthylester d. $C_{18}H_{19}O_4N$ carbonsaure (B. 36, 2848 C. 1903 [2] 1129; B. 36, 2852 C. 1903 [2] 1129).
- 1) Tetramethyläther d. β -Brom- α -Oxy- α -[2,4,5-Trioxyphenyl] propan. $C_{13}H_{19}O_4Br$ Sm. 77,5° (Ar. 242, 100 C. 1904 [1] 1008).
- 4-Nitro-2, 3, 5-Trioxy-9) 2, 5-Dimethyläther-3-Aethyläther C18H19O5N đ.
 - 1-Propylbenzol. Sm. 75° (B. 36, 1719 C. 1903 [2] 114).
 10) isom. ζ-Benzylidenamido αβγδε-Pentaoxyhexan (Benzmannamin). Sm. 183° u. Zers. (C. r. 138, 505 C. 1904 [1] 872). Sm.
- 2) Nitril d. α-Methyldiäthyljodammoniumphenylessigsäure. $C_{13}H_{19}N_2J$ 128—129° (B. 36, 4193 C. 1904 [1] 263).
- 10) Propyläther d. Propylhydrazonoxyphenylmethan. Sm. 100°. HBr $C_{18}H_{20}ON_{2}$ (J. pr. [2] 70, 279 C. 1904 [2] 1545).
 2) Amid d. α-Diäthylamido-α-[4-Oxyphenyl]essigmethyläthersäure. Sm. 161° (B. 37, 4091 C. 1904 [2] 1725). $C_{13}H_{20}O_{2}N_{2}$
- 3) Diäthyläther d. Benzylidendi $[-\alpha$ -Amido $-\alpha$ -Imido $-\alpha$ -Oxymethan]. $C_{18}H_{20}O_2N_4$
- Sm. 154° (C. 1904 [2] 30). α-Aethylureïdo-β-Aethyl-α-Benzylharnstoff. Sm. 146° (B. 37, 2326) C. 1904 [2] 312).
- 2) Methylphenylhydrazon d. Fukose. Sm. 177° (B. 37, 306 C. 1904 C18H20O4N2 [1] 649).
 - 3) Aethylester d. α -Cyan- α -Oxypropion-[β -Cyan- α -Aethoxylisobutyl]äthersäure. Sm. 120° (C. 1904 [1] 160).
- 1) α-Isoamylsulfon-α-Phenylsulfonathan. Sm. 84-86° (B. 36, 303 C18H20O4S2 C. 1903 [1] 500). 2) 2,4-Di[Propylsulfon]-1-Methylbenzol. Sm. 83-84° (J. pr. [2] 68,
 - 336 C. 1903 [2] 1172).
- *1) Methylphenylhydrazon d. d-Galaktose. Sm. 189—190° (R. 15, 225; B. 37, 305 C. 1904 [1] 649; B. 37, 3853 C. 1904 [2] 1711). $C_{18}H_{20}O_5N_2$
- B. 31, 300 U. 1904 [1] 049; B. 31, 3805 U. 1904 [2] 1711).
 *4) β-Amid d. β-Cyan-γ-Oxy-ε-Ketohexanäthyläther-βδ-Dicarbonsäure-δ-Aethylester? (G. 33 [2] 161 C. 1903 [2] 1282).
 5) 4 Keto 1, 3 Di[α-Oximidoäthyl]-1, 3 Di[Oxymethyl]-6-Methylly, 3, 4-Tetrahydrobenzol. Sm. 268° (B. 36, 2175 C. 1903 [2] 371).
 C₁₃H₂₀O₆N₂ 10) isom. α-[βγδεζ-Pentaoxyhexyl]-β-Phenylharnstoff (Mannaminphenylharnstoff). Sm. 202° (C. r. 138, 505 C. 1904 [1] 872).
 C.-Hanner 1) Methyläthylallyl-4-Methylphenylammoniumbromid. Zers. bei 173 $\mathbf{C}_{18}\mathbf{H}_{20}\mathbf{NBr}$ bis 174° (B. 37, 2718 C. 1904 [2] 592).

 $C_{18}H_{27}O_{2}N$ $C_{18}H_{28}ON_{2}$

$\mathbf{C}_{13}\mathbf{H}_{20}\mathbf{N}\mathbf{J}$	9)	Methyläthylallyl-4-Methylphenylammoniumjodid. Sm. 140-142°.
		+ CHCl ₃ (B. 37, 2716 C. 1904 [2] 591).
$\mathbf{C_{13}H_{21}ON}$	13)	Methyläthylallyl-4-Methylphenylammoniumhydroxyd. Salze siehe
	7.41	(B. 37, 2716 C. 1904 [2] 592). Oxim d. Allylcampher. Sd. 165—170 $^{\circ}_{20}$ (C. r. 136, 792 C. 1903 [1] 1086).
	14)	Oxim d. Pseudojonon. Sd. $190-195\frac{0}{20}$ (C. 1904 [1] 280).
	10)	Methylhydroxyd d. 1-Benzylhexahydropyridin. d-Bromcampher-
	10)	sulfonat (Soc. 83, 1143 C. 1903 [2] 1062).
C TT O'N		C $66.4 - H 8.9 - O 6.8 - N 17.9 - M. G. 235.$
$C_{13}H_{21}ON_3$	11	4-Semicarbazon-6-Isobutenyl-2, 2-Dimethyl-1, 2, 3, 4-Tetrahydro-
	•	benzol. Sm. 168—169° (L. Blach, Dissert., Heidelberg 1900).
	2)	Semicarbazon d. Xyliton. Sm. 158-1590 (L. Blach, Dissert., Heidel-
		here 1900).
	3)	Semicarbazon d. Isoxyliton. Sm. 157° (L. Blach, Dissert, Heidel-
		berg 1900).
$C_{18}H_{21}O_{2}N$	*6)	1-Menthylester d. Cyanessigsäure. Sm. 83-840 (C. 1903 [1] 566;
	_	Soc. 85, 43 C. 1904 [1] 789).
$\mathbf{C_{13}H_{21}O_{3}N}$	3)	d-Bornylester d. α-Oximidopropionsäure. Sm. 90° (P. Ch. S. No. 230).
~ ~ ~ ~ ~ ~	10)	— *III, 338. Diäthylester d. δ -Cyan- γ -Methylpentan- $\alpha\delta$ -Dicarbonsäure. Sd. 184
$\mathbf{C_{13}H_{21}O_{4}N}$	10)	bis 194° ₂₉ (C. 1903 [2] 1425).
O TE O N		C 57,6 — H 7,7 — O 29,5 — N 5,2 — M. G. 271.
$\mathbf{C_{13}H_{21}O_5N}$	1)	Diäthylester d. 5-Imido-l-Oxy-l-Methylhexahydrobenzol-2,4-Di-
	-,	carbonsäure. Sm. 92° (A. 332, 17 C. 1904 [1] 1565).
$\mathbf{C_{13}H_{22}O_{2}Br_{2}}$, 1)	Dibromid d. 9-Methyl-3-Isopropenylbicyklo-[1,3,3]-Nonan-5,7-
10 22 2 -		diol. Sm. 161° u. Zers. (B. 36, 231 C. 1903 [1] 514).
	2)	Dibromld d. isom. 9-Methyl-3-Isopropenylbicyklo-[1,3,3]-Nonan-
		5,7-diol. Fl. (B. 36, 233 C. 1903 [1] 514).
$\mathbf{C_{13}H_{22}O_{4}S}$	1)	Dihydro - α - Jononsulfonsäure + $3 \text{H}_2\text{O}$. Sm. 80—88° u. Zers. Na (C. 1904 [1] 281).
CECN		C $51.6 - H 7.3 - O 31.8 - N 9.3 - M. G. 302.$
$\mathbf{C_{18}H_{22}O_6N_2}$	1)	$\beta\delta$ -Diacetyl- $\beta\delta$ -Di $[\alpha$ -Oximidoäthyl- $\alpha\varepsilon$ -Dioxypentan $+$ H ₂ O. Sm. 252°
	-)	(B. 36, 2174 C. 1903 [2] 371).
$C_{18}H_{22}O_7N_4$	2)	Diäthylesterd.Carboxylamidoacetylamidoacetylamido-
	-	essigsäure (Carbäthoxyltriglycylglycinäthylester). Sm. 235—236° (B. 36,
	۵.	2103 C. 1903 [1] 1304).
$\mathbf{C_{18}H_{22}NJ}$	3)	Methyldipropylphenylammoniumjodid. Sm. 156° (Soc. 83, 1407
O TE O M	ο,	C. 1904 [1] 438).
$\mathbf{C}_{13}\mathbf{H}_{28}\mathbf{O}_{2}\mathbf{N}$		 α-[Methyl-β-Oxyäthylamido¹campher. Fl. (4. 307, 195). — *III, 360. Aethylester d. d-Bornylamidcameisensäure. Sm. 89° (Soc. 85, 686)
	رد	C. 1904 [2] 331).
	4)	Aethylester d. Neobornylamidoameisensäure. Sm. 36° (Soc. 85,
•	•	688 C. 1904 [2] 332).
$C_{18}H_{24}OS_{2}$	1)	Aethylester d. Menthylganthagersäure. Sm. 90 (C. 1904 [1] 1847)
$\mathbf{C_{13}^{2}H_{24}O_{11}N_{2}}$	1)	Laktoseureid $+ 11.0.7$ 22, 72 C. 1903 11 1081).
$\mathbf{C_{13}H_{25}O_{2}N}$		C 68,7 — H 11,0 — O 14,1 — N 6,2 — M. G. 227.
	1)	Aethylester d. l-Menthylamidoameisensäure. Sm. 59° (Soc. 85, 689
G TT 0 TT		C. 1904 [2] 332).
$\mathbf{C}_{13}\mathbf{H}_{25}\mathbf{O}_{11}\mathbf{N}_{3}$	11	C 39,1 — H 6,3 — O 44,1 — N 10,5 — M. G. 399.
	1)	Semicarbazon d. Cellose $+ 2 H_2 O$. Sm. $183-185^{\circ}$ (Bl. [3] 31, 1078 C. 1904 [2] 1493).
	2)	Semicarbazon d. Laktose $+$ 2H ₂ O. Sm. 185° u. Zers. (Bl. [3] 31,
		1078 C. 1904 (2) 1493).
$\mathbf{C}_{18}\mathbf{H}_{26}\mathbf{NJ}$	3)	Jodnethylat d. Base C. H. N (aus a-Camphylamin). Sm. 285 n. Zers.
-5 40		(U. r. 136, 1462 U. 1903 2 287).
$\mathbf{C_{13}H_{27}ON}$	8)	α -Acetylamidoundekan. Sm. 47—48° (<i>Bl.</i> [3] 29, 1214 <i>C.</i> 1904 [1] 355).
	9)	β -Oximidotridekan. Sm. $56-57^{\circ}$ (Bl. [3] 29, 1130 C. 1904 [1] 258;
	10)	Bl. [3] 29, 1211 C. 1904 [1] 355).
	10)	Methylhydroxyd d. Dimethylbornylamin (Soc. 85, 1195 C. 1904 [2] 1125).
		± ± == 1 /s

*2) Aethylester d. Diisoamylamidoameisensäure. Sd. 129—130°₁₄ (B. 36, 2477 C. 1903 [2] 559).

3) α - [d-sec. Butyl] - $\beta\beta$ - Diisobutylharnstoff. Sm. 84° (Ar. 242, 71 C. 1904 [1] 999).

C₁₃H₂₈N₂S 2) $\alpha \alpha$ -Diisobutyl- β -[d-sec. Butyl]thioharnstoff. Sm. 33° (Ar. 242, 61 C. 1904 [1] 998).

- 13 IV -

	— 13 IV —
$\mathbf{C_{13}H_4O_9N_4Cl_2}$	1) 4,4'-Dichlor-3,5,3',5'-Tetranitrodiphenylketon. Sm. 202° (G. 34 [1] 381 C. 1904 [2] 111).
$\mathbf{C_{13}H_5O_2ClBr_6}$	1) α - Chlor-2,3,5,2,3,5'-Hexabrom-4,4'-Dioxydiphenylmethan. Sm. 215—217° u. Zers. (A. 330, 73 Anm. C. 1904 [1] 1148).
$\mathbf{C_{13}H_5O_7N_3Cl_2}$	1) 4,4'-Dichlor-3,5,3'-Trinitrodiphenylketon. Sm. 140° (G. 34 [1] 377 C. 1904 [2] 110).
$\mathbf{C_{13}H_6O_5N_2Cl_2}$	2) 4,4'-Dichlor-3,3'-Dinitrodiphenylketon. Sm. 120° (G. 34 [1] 377 C. 1904 [2] 110).
$\mathbf{C_{18}H_{6}O_{5}N_{2}Br_{2}}$	2) 3,3'-Dibrom-P-Dinitrodiphenylketon. Sm. 209° (B. 37, 3484 C. 1904 [2] 1131).
	3) 3,4'-Dibrom-?-Dinitrodiphenylketon. Sm. 181° (B. 37, 3485 C. 1904 [2] 1131).
$\mathbf{C_{13}H_6O_6N_2Br_4}$	1) 2,5,2',5'[oder 5,6,5',6']-Tetrabrom-3,3'-Dinitro-4,4'-Dioxydiphenylmethan. Sm. 244° (A. 333, 366 C. 1904 [2] 1117).
$egin{array}{l} \mathbf{C_{18}H_7O_2NS} \\ \mathbf{C_{18}H_7O_2NCl_4} \end{array}$	 2) Carbindophenin (B. 37, 3349 C. 1904 [2] 1058). 1) Phenylamidoformiat d. 2,3,4,6-Tetrachlor-1-Oxybenzol. Sm.
$\mathbf{C_{13}H_{8}O_{2}NCl}$	141—142° (B. 37, 4016 C. 1904 [2] 1716). 3) Verbindung (aus Phenol u. o-Nitrobenzaldehyd). Sm. oberh. 200° (Bl. [3] 31, 531 C. 1904 [1] 1598).
$\mathbf{C}_{13}\mathbf{H}_8\mathbf{O}_3\mathbf{NCl}$	(Br. [3] 34, 317 C. 1304 [1] 1333. 3) 4-Chlor-4'-Nitrodiphenylketon. Sm. 98° (R. 23, 107 C. 1904 [1] 1136).
$\mathbf{C_{18}H_8O_8NBr}$	2) 4-Brom-4'-Nitrodiphenylketon. Sm. 134° (R. 23, 108 C. 1904 [1] 1136).
$\mathrm{C_{13}H_8O_5NBr}$	1) Phenylester d. 3-Brom-5-Nitro-2-Oxybenzol-1-Carbonsäure. Sm. 165° (G. 34 [1] 273 C. 1904 [1] 1499).
	2) Phenylester d. ?-Brom-?-Nitro-2-Oxybenzol-1-Carbonsäure. Sm. 193—195° (G. 34 [1] 275 Anm. C. 1904 [1] 1499).
$\mathbf{C_{13}H_8O_5N_8Br}$	5) 3-Brom-P-Dinitro-3'-Amidodiphenylketon. Sm. 250° (B. 37, 3485 C. 1904 [2] 1131).
	6) 3-Brom-?-Dinitro-4'-Amidodiphenylketon. Sm. 240° (B. 37, 3486 C. 1904 [2] 1131).
$\mathbf{C_{13}H_8O_6N_2Br_2}$	1) 5,5'-Dibrom-3,3'-Dinitro-4,4'-Dioxydiphenylmethan. Sm. 232° (A. 333, 365 C. 1904 [2] 1117).
$\mathbf{C}_{13}\mathbf{H}_{8}\mathbf{O}_{8}\mathbf{N}_{5}\mathbf{Br}$	1) 2-Brom-4, 6-Dinitrophenyl-4-Nitrobenzylnitramin. Sm. 132° (R. 21, 429 C. 1903 [1] 506).
$\mathbf{C_{13}H_8N_2Br_2S}$	1) P-Dibrom-1-Phenylamidobenzthiazol. Sm. 1950 (B. 36, 3129) C. 1903 [2] 1070).
$\mathbf{C}_{13}\mathbf{H}_0\mathbf{ONCl}_2$	*1) α -Oximido-4,4'-Dichlordiphenylmethan. Sm. 135° (C. r. 137, 711 C. 1903 [2] 1442).
	8) 3,5-Dichlor-4-Amidodiphenylketon. Sm. 137° (Soc. 85, 345)
$\mathbf{C_{18}H_9ONBr_2}$	*3) α -Oximido-4,4'-Dibromdiphenylmethan. Sm. 150° (150—152°) (C. r. 137, 710 C. 1903 [2] 1442; Am. 30, 452 C. 1904 [1] 377).
$\mathrm{C_{18}H_{0}ONBr_{4}}$	1) Phenyl-3,4,5,6-Tetrabrom-2-Oxybenzylamin. Sm. 105—170° 11. Zers. (A. 332, 179 C. 1904 [2] 209).
$\mathbf{C_{13}H_{0}ONJ_{2}}$	5) 3,4-Dijodphenylamid d. Benzolcarbonsäure. Sm. 174° (C. r. 136, 1078 C 1903 [1] 1339).
$\mathbf{C}_{19}\mathbf{H}_{9}\mathbf{ON_{8}S_{2}}$	1) 1-Naphtylamid d. Isorhodanformylthioameisensäure. Sm. 182° (Soc. 83, 94 C. 1903 [1] 230, 447).
$C_{18}H_9OCIS$	1) Benzoat d. 4-Chlor-l-Merkaptobenzol. Sm. 70-70° (C. r. 138,
$C_{13}\mathbf{H}_{9}\mathbf{OBrS}$	1) Benzoat d. 4-Brom-1-Merkaptobenzol. Sm. 83-84° (C. r. 138,
$\mathrm{C_{18}H_9O_2NCl_2}$	2) $\alpha\alpha$ -Dichlor-4-Nitrodiphenylmethan. Sm. 56-57° (B. 37, 605-67) (B. 37, 605-67)
$\mathbf{C_{18}H_9O_2NBr_2}$	*3) 2,6-Dibrom-4-Benzoylamido-I-Oxybenzol (Soc. 81, 1479 C. 1903
$\mathbf{C}_{18}\mathbf{H}_{\theta}\mathbf{O}_{2}\mathbf{N}_{2}\mathbf{Cl}$	7) Phenyl-4-Chlor-2-Nitrobenzylidenamin. Sm. 93° (B. 37, 1865 C. 1904 [1] 1600).

13 IV.	<u> </u>
$\mathbf{C_{13}H_9O_2N_2Cl}$	8) Phenyl-6-Chlor-3-Nitrobenzylidenamin. Sm. 103° (M. 25, 369 C. 1904 [2] 322).
	9) Phenylamid d. 4-Chlor-2-Nitrosobenzol-1-Carbonsäure. Sm. 170° (B. 37, 1870 C. 1904 [1] 1601).
$\mathrm{C_{13}H_9O_2N_2Br}$	2) Phenyl-4-Brom-2-Nitrobenzylidenamin. Sm. 105° (B. 37, 1869) C. 1904 [1] 1601).
$\mathrm{C_{13}H_9O_2N_8Br_2}$	1) Phenylamid d. 3,5 - Dibrom - 4 - Oxyphenylazoameisensäure. Sm. 226—227° u. Zers. (A. 334, 173 C. 1904 [2] 834).
$C_{13}H_9O_3NCl_2$	3) 2-Chlorbenzyläther d. 4-Chlor-2-Nitro-1-Oxybenzol. Sm. 117 ^o (D.R.P. 142061 C. 1903 [2] 83).
$\mathrm{C_{13}H_9O_8N_2Br}$	6) 3-Brom-1-Benzylidenamido-2-Keto-1, 2-Dihydropyridin-5-Carbonsäure. Sm. 243° (B. 37, 3840 C. 1904 [2] 1616).
$\mathrm{C_{13}H_9O_4N_2Br}$	1) 6-Brom-2-Nitro-4-Benzoylamido-1-Oxybenzol. Sm. 247° (Soc. 81, 1478 C. 1903 [1] 23, 144).
	2) Phenylamid d. 3-Brom-5-Nitro-2-Oxybenzol-1-Carbonsäure. Sm. 221° (G. 34 [1] 275 C. 1904 [1] 1499).
$\mathrm{C_{13}H_9O_4N_3Br_2}$	2) 4, 6-Dibrom-2-Nitrophenyl-4-Nitrobenzylamin. Sm. 128° (R. 21, 430 C. 1903 [1] 506).
$C_{18}H_9O_4ClS$	*2) 2-Chlorid d. Benzol-I-Carbonsäurephenylester-2-Sulfonsäure. Sm. 103-104° (Am. 30, 302 C. 1903 [2] 1122).
$C_{13}H_9O_5N_8Cl_2$	1) 3', 5'-Dichlor-4,6-Dinitro-4'-Oxy-3-Methyldiphenylamin, Sm.230° (B. 37, 2094 C. 1904 [2] 34).
	2) Methyläther d. P-Dichlor-2', 4'-Dinitro-2-Oxydiphenylamin. Sm. 206-207° (B. 36, 3270 C. 1903 [2] 1127).
$C_{13}H_9O_7NS$	2) 1-Phenylester d. 4-Nitrobenzol-1-Carbonsäure-2-Sulfonsäure. K, Ba + 5H ₂ O (Am. 30, 377 C. 1904 [1] 275).
$\mathrm{C_{13}H_{9}NClBr}$	1) a-Chlor-a-Fhenylimido-a-[4-Bromphenyl]methan. Sm. 78°; Sd. 205—207° ₁₂ (Am. 30, 34 C. 1903 [2] 363).
$C_{13}H_{10}ONCl$	*8) Phenylchloramid d. Benzolcarbonsäure. Sm. 81,5-82° (Am. 29, 305 C. 1903 [1] 1166).
•	*10) 4-Chlorphenylamid d. Benzolcarbonsäure. Sm. 187—187,5° (192—193°) (Am. 29, 306 C. 1903 1] 1166; R. 22, 11 C. 1903 1]
	1082; J. pr. [2] 67, 453 U. 1903 [1] 1421). 13) 5-Chlor-2-Amidodiphenylketon. Sm. 100° (Soc. 85, 344 U. 1904
	[1] 1405). 14) 3-Chlor-4-Amidodiphenylketon. Sm. 140° (Soc. 85, 342 C. 1904)
$\mathbf{C_{18}H_{10}ONBr_{8}}$	[1] 1405). 1) Phenyl-2,4,6-Tribrom-3-Oxybenzylamin. Sm. 96° (A. 332, 182 C. 1904 [2] 209).
$\mathrm{C_{18}H_{10}ON_2Cl_2}$	7) a-Phenyl-\(\frac{\pi}{2}\) [3,5-Dichlor-2-Oxybenzyliden]hydrazin. Sm. 153\(\text{Sm.}\) (B. 37, 4028\(\text{C.}\) 1904\([2]\) 1718).
$\mathrm{C_{18}H_{10}ON_{2}Br_{2}}$	 Monobenzoylderivat d. 2,6-Dibrom-1,4-Diamidobenzol. Sm. 1949 (Am. 31, 219 C. 1904 [1] 1073).
$\mathrm{C_{15}H_{10}ON_{2}S}$	6) 2-Imido-4-Keto-3-[2-Naphtyl]tetrahydrothiazol. Sm. 147° (C. 1903 2] 110).
	7) 2-[2-North limito-4-Ketatatru vdrothiazol (stabil. 2-Naphtylpseud
$\mathrm{C}_{13}\mathrm{H}_{10}\mathrm{O}_{2}\mathrm{NC1}$	3) 2-Chlor-4'-Nitrodiphenylmethan? Sm. 67° (R. 23, 108 C. 1904 [1] 1136).
	4) 4-Chlor-4'-Nitrodiphenylmethan. Sm. 104° (R. 23, 107 U. 1904 [1] 1136).
$\mathbf{C_{13}H_{10}O_{2}NCl_{8}}$	 Phenylaminverbindung (aus 2, 3, 5, 6-Tetrachlor-1-Oxy-4-Keto-1-Methyl-1,4-Dihydrobenzol). Sm. 192° (A. 328, 303 C. 1903 [2] 1248).
$\mathrm{C_{18}H_{10}O_{2}NBr}$	5) 2-Brom-4'-Nitrodiphenylmethan? Sm. 73° (R. 23, 109 C. 1904 [1] 1136).
	6) 4-Brom-4'-Nitrodiphenylmethan. Sm. 121° (R. 23, 108 C. 1904 [1] 1136).
$C_{13}H_{10}O_2N_2S$	8) Nîtril d. 3-Phenylsulfonamidobenzol-1-Carbonsäure. Sm. 126,5 bis 127° (C. 1904 [2] 102).
	9) Phenylcyanamid d. Benzolsulfonsäure. Sm. 66—67° (B. 37, 2810 C. 1904 [2] 592).
$C_{13}H_{10}O_2N_8C1$	*2) 6-Chlor-3-Nitrobenzylidenphenylhydrazin. Sm. 183° (M. 25, 367 C. 1904 [2] 322).

$\mathrm{C}_{18}\mathrm{H}_{10}\mathrm{O}_{2}\mathrm{N}_{3}\mathrm{Cl}$	3) Phenyl-4-Chlor-2-Nitrobenzylidenhydrazin. Sm. 176—177° (180—181°) (B. 36, 3301 C. 1903 [2] 1173; D.R.P. 149748 C. 1904 [1] 909).
$C_{13}H_{10}O_2N_3Br$	4) Phenyl-4-Brom-2-Nitrobenzylidenhydrazin. Sm. 181—182°
$\mathbf{C_{13}H_{10}O_{2}N_{3}J}$	(B. 36, 3303 C. 1903 [2] 1173; D.R.P. 149748 C. 1904 [1] 909). 1) Phenyl-4-Jod-2-Nitrobenzylidenhydrazin. Sm. 185° (B. 36, 3303 C. 1903 [2] 1173; D.R.P. 149749 C. 1904 [1] 909).
$\mathrm{C_{13}H_{10}O_{3}NCl}$	1) 2-Nitrophenyläther d. 2-Chlor-1-Oxymethylbenzol. Sm. 890
	(D.R.P. 142061 C. 1903 [2] 83). 2) 2-Nitrophenyläther d. 4-Chlor-1-Oxymethylbenzol. Sm. 75—78° (D.R.P. 142061 C. 1903 [2] 83).
	3) Benzyläther d. 4-Chlor-2-Nitro-1-Oxybenzol. Sm. 86° (D.R.P. 142899 C. 1903 [2] 83).
$C_{13}H_{10}O_3NBr$	*3) 4-Brom-2-Nitrobenzyläther d. Oxymethylbenzol. Sm. 88—89° (D.R.P. 142899 C. 1903 [2] 83).
$C_{13}H_{10}O_3N_2S_2$	1) 2-Thiocarbonyl-4-Keto-5-[2-Nitrobenzyliden]-3-Allyltetra-
	hydrothiazol. Sm. 73° (<i>M.</i> 24, 513 <i>C.</i> 1903 [2] 837). 2) 2-Thiocarbonyl-4-Keto-5-[3-Nitrobenzyliden]-3-Allyltetra-
	hydrothiazol. Sm. 145° (M. 25, 161 C. 1904 [1] 894). 3) 2-Thiocarbonyl-4-Keto-5-[4-Nitrobenzyliden]-3-Allyltetra-
	thiazol. Sm. 153° (M. 25, 162 C. 1904 [1] 894).
$C_{13}H_{10}O_3N_3Cl$	3) Azoverbindung (aus 4-Nitrodiazobenzol u. 6-Chlor-2-Oxy-1-Methylbenzol). Sm. 230° (B. 37, 1020 C. 1904 [1] 1202).
$\mathrm{C_{18}H_{10}O_{3}N_{3}Br}$	(i) α-Phenyl-β- 5-Brom-3-Nitro-2-Oxybenzyliden hydrazin. Sm.
	243° (B. 37, 3936 C. 1904 [2] 1596). 7) Azoverbindung (aus 4-Nitrodiazobenzol u. 6-Brom-2-Oxy-1-Methyl-
C ₁₈ H ₁₀ O ₄ N ₈ Br	benzol). Sm. 215° (B. 37, 1022 C. 1904 [1] 1203). 1) 4-Brom-2-Nitrophenyl-4-Nitrobenzylamin. Sm. 151° (R. 21, 430
018111004118111	 C. 1903 [1] 506). 2) 2-Brom-4-Nitrophenyl-4-Nitrobenzylamin. Sm. 180° (R. 21, 429)
	C. 1903 [1] 506).
	3) Phenylhydrazid d. 3-Brom-5-Nitro-2-Oxybenzol-1-Carbonsäure. Sm. 190° (G. 34 [1] 276 C. 1904 [1] 1499).
$\mathbf{C_{18}H_{10}O_{5}N_{2}S}$	5) 1-[2-Nitrobenzyliden]amidobenzol-4-Sulfonsäure (D.R.P. 97948
	 C. 1898 [2] 742). — *III, 22. 1-[4-Nitrobenzyliden]amidobenzol-4-Sulfonsäure (D.R.P. 97948 C. 1898 [2] 742). — *III, 22.
$\mathrm{C_{18}H_{10}O_5N_8Cl}$	1) 3'-Chlor-4, 6-Dinitro-4'-Oxy-3-Methyldiphenylamin. Sm. 170
$C_{13}\mathbf{H}_{10}O_{6}\mathbf{N}_{2}\mathbf{S}$	(B. 37, 2093 C. 1904 [2] 34). 5) 2-Amid d. 4-Nitrobenzol-1-Carbonsäurephenylester-2-Sulfon-
C ₁₃ H ₁₀ NClS	säure. Sm. 135° (Am. 30, 385 C. 1904 [1] 275). 1) 4-Chlorphenylamid d. Benzolthiocarbonsäure. Sm. 146—147°
	$(I_{mr}, [2], 67, 464, C, 1903, [1], 1422),$
$\mathbf{C_{18}H_{10}NBrS}$	1) Phenylamid d. 4-Brombenzol-1-Thiocarbonsäure. Sm. 161 bis 162° (C. 1904 [1] 1003).
$\mathbf{C_{13}H_{10}N_{2}Cl_{2}S}$	*2) s-Di[3-Chlorphenyl]thioharnstoff (B. 36, 197 C. 1903 [1] 450). *3) s-Di[4-Chlorphenyl]thioharnstoff. Sm. 141° (B. 36, 197 C. 1903
	[1] 450).
$\mathbf{C}_{18}\mathbf{H}_{10}\mathbf{N}_{2}\mathbf{Br}_{2}\mathbf{S}$	0 1903 [1] 450).
$\mathbf{C_{18}H_{10}N_{2}Br_{4}S}$	1) Verbindung (aus s-Diphenylthioharnstoff). Sm. 136° (B. 36, 3127
$\mathbf{C_{18}H_{11}ONCl_{2}}$	2) 2-Chlorbenzyläther d. 4-Chlor-2-Amido-1-Oxybenzol. Hol
$\mathbf{C}_{13}\mathbf{H}_{11}\mathbf{ONS}_{2}$	1) 2-Thiocarbonyl-4-Keto-3-Allyl-5-Benzylidentetranydrotmazor.
	Sm. 144° (M. 24, 506 C. 1903 [2] 836). 2) 2-Thiocarbonyl-4-Keto-5-Cinnamyliden-3-Methyltetrahydro-
$\mathbf{C}_{18}\mathbf{H}_{11}\mathbf{ON}_{2}\mathbf{Cl}$	thiazol. Sm. 226° (M. 25, 172 C. 1904 [1] 895). *11) α-Phenyl-β-[5-Chlor-2-Oxybenzyliden]hydrazin. Sm. 148° (B. 37,
0182211 0212 02	4025 C. 1904 [2] 1717).
	bis 174°. + $C_2 L_6 U$, i mini (J_1, \dots, L_2) 67, 470 (L_1) 1903 [1] 1422). 16) Chlorid d. $\beta\beta$ - Diphenylhydrazidoameisensäure (B, B, B) 3156
	16) Chioria d. ρρ - Diphenyiny drazadounious (2) (2) 1057).

$\mathbf{C_{13}H_{11}ON_{2}Br}$	*8) α -Phenyl- β -[5-Brom-2-Oxybenzyliden]hydrazin. Sm. 151° (B. 37, 3934 C. 1904 [2] 1596).
$\mathbf{C_{13}H_{11}O_{2}NS_{2}}$	1) 2-Thiocarbonyl-4-Keto-3-Allyl-5-[2-Oxybenzyliden] tetrahydro- thiazol. Sm. 179° (M. 24, 508 C. 1903 [2] 836).
$\mathbf{C_{13}H_{11}O_{2}N_{3}S}$	*1) s-3-Nitrodiphenylthioharnstoff. Sm. 155° (B. 36, 197 C. 1903 [1] 450; J. pr. [2] 67, 480 C. 1903 [1] 1407).
$C_{13}H_{11}O_8NS$.	*3) Benzoylamid d. Benzolsulfonsäure. Sm. 146° (B. 37, 693 C. 1904)
$\mathbf{C_{18}H_{11}O_{8}NS_{2}}$	1) 3,4-Methylenäther d. 2-Thiocarbonyl-4-Keto-5-[3,4-Dioxybenzyliden]-3-Aethyltetrahydrothiazol. Sm. 154° (M. 25, 177
$\mathbf{C_{13}H_{11}O_{3}N_{4}Br}$	C. 1904 [1] 895). 1) 2 - [4 - Broughenyl] -1, 2, 3, 4 - Tetrazin - 6 - Dimethylmalonsäure.
$C_{13}\mathbf{H}_{11}O_{3}\mathbf{JS}$	Sm. 154°. 2 + C ₆ H ₆ (Soc. 83, 1255 C. 1903 [2] 1422). 1) 2-Jodphenylester d. 1-Methylbenzol-4-Sulfonsäure. Sm. 73° (A. 332, 64 C. 1904 [2] 41).
$\mathbf{C_{19}H_{11}O_4NS}$	*4) I-Phenylester d. Benzol -1- Carbonsäure - 2 - Sulfonsäureamid. Sm. 132° (Am. 30, 295 C. 1903 [2] 1121).
	11) Phenylester d. Phenylsulfonamidoameisensäure. Sm. 123° (B. 37, 694 C. 1904 [1] 1074).
,	12) 2-Phenylester d. Benzol-1-Carbonsäureamid-2-Sulfonsäure. Sm. 95° (Am. 30, 300 C. 1903 [2] 1122).
$\mathbf{C_{13}H_{11}O_{5}NS}$	8) Diphenylamin-2-Carbonsäure-8-Sulfonsäure. Na, Ba (I).R.P. 146102 C. 1903 [2] 1152).
•	9) Diphenylamin-2-Carbonsäure-4-Sulfonsäure. Na (D. R. P. 146102 C. 1903 [2] 1152).
	10) Phenylester d. 4-Nitro-1-Methylbenzol-2-Sulfonsäure. Sm. 64° (Soc. 85, 1432 C. 1904 [2] 1740).
$\mathbf{C_{13}H_{11}O_{5}N_{5}S}$	1) α - Phenylhydrazon - α - [4-Sulfophenyl] azo - α - Nitromethan. K (C. 1903 [2] 427).
$\mathrm{C}_{13}\mathrm{H}_{11}\mathrm{O}_{6}\mathrm{NS}$	6) 4'-Nitro-2-Methyldiphenyläther-P-Sulfonsäure. Sm. 115°. Na, K, Ba, Cu + 5H ₂ O (C. 1903 [1] 509).
	7) 4'-Nitro-3-Methyldiphenyläther-?-Sulfonsäure. Sm. 135°. Ba, Cu + 4H ₂ O (Am. 28, 487 C. 1903 [1] 327).
•	S) 4'-Nitro-4-Methyldiphenyläther-?-Sulfonsäure. Sm. 102°. Na $+ 3\frac{1}{2}H_2O$, Ba $+ 2H_2O$ (C. 1903 [1] 634).
$C_{13}H_{11}O_7N_3S$	3) 2',4'-Dinitro-2-Methyldiphenylamin-5-Sulfonsäure. Na (B. 36, 34 C. 1903 [1] 521).
	4) 2', 4'-Dinitro-4-Methyldiphenylamin-3-Sulfonsäure. Na (B. 36, 34 C. 1903 [1] 521).
$C_{18}H_{11}O_8N_2Cl_3$	1) Diäthylester d. Trichlordinitrophenylmalonsäure. Sm. 82° (Am. 31, 381 C. 1904 [1] 1409).
$\mathbf{C}_{18}\mathbf{H}_{11}\mathbf{N}_{2}\mathbf{ClS}$	*1) s-2-Chlordiphenylthioharnstoff. Sm. 165° (B. 36, 196 C. 1903 [1] 450).
	2) 8-3-Chlordiphenylthioharnstoff. Sm. 120° (B. 36, 196 C. 1903 [1] 450).
	3) s-4-Chlordiphenylthioharnstoff. Sm. 152° (B. 36, 197 C. 1903 [1] 450).
$\mathbf{C_{13}H_{11}N_{2}BrS}$	2) s - 2 - Bromdiphenylthioharnstoff. Sm. 161° (144°) (B. 36, 196 C. 1903 [1] 450).
•	3) s - 3 - Brondiphenylthioharnstoff. Sm. oberh. 120° (B. 36, 196 C. 1903 [1] 450).
$C_{18}H_{11}ClBrJ$	1) 3'-Brom-2-Methyldiphenyljodoniumehlorid. Sm. 170° 4 UgCl
	2 + PtCl ₄ (J. pr. [2] 69, 330 C. 1904 [2] 36). 2) 3'-Brom-4-Methyldiphenyljodoniumehlorid. Sm.174,5°. + HgCl ₂ , 2 + PtCl ₄ (J. pr. [2] 69, 329 C. 1904 [2] 36).
$\mathbf{C}_{13}\mathbf{H}_{12}\mathbf{ONCl}$	*1) Aethyläther d. α-Chlorimido-α-Oxy-α-[2-Nanhtyl]methan Sm
• -	71° (Am. 29, 317 C. 1903 [1] 1167). 4) 2-Chlor-1-[2-Oxybenzyl]amidobenzol. Sm. 118° (Ar. 240, 689
	 C. 1903 [1] 395). 4-Chlor-1-[2-Oxybenzyl]amidobenzol. Sm. 121° (Ar. 240, 684) C. 1903 [1] 305).
of the second	 C. 1903 [1] 395). Benzyläther d. 4-Chlor-2-Amido-1-Oxybenzol. HCl (I).R.P. 142899 C. 1903 [2] 83).
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

$\mathbf{C_{13}H_{12}ONCl}$	7) 2-Amidophenyläther d. 2-Chlor-1-Oxymethylbenzol. HCl (D. R. P. 142061 C. 1903 [2] 83).
	8) 2-Amidophenyläther d. 4-Chlor-I-Oxymethylbenzol. HCl (D. R. P. 142061 C. 1903 [2] 83).
$\mathbf{C}^{13}\mathbf{H}^{15}\mathbf{ONCl}^3$	1) 4-Methyl-2-[γγγ-Trichlor-β-Oxypropyl]chinolin. Sm. 126° (B. 37, 1330 C. 1904 [1] 1360).
$\mathrm{C_{13}H_{12}ONBr}$	*6) Aethyläther d. α-Bromimido-α-Oxy-α-[2-Naphtyl]methan. Sm. 76,5—77° (Am. 29, 318 C. 1903 [1] 1167).
	9) 4-Brom-1-[2-Oxybenzyl]amidobenzol. Sm. 126° (Ar. 240, 685 C. 1903 [1] 395).
	10) Benzyläther d. 4-Brom-2-Amido-1-Oxybenzol. HCl (D.R.P. 142899 C. 1903 [2] 83).
$\mathbf{C_{18}H_{12}OBrJ}$	1) 3-Brom-2-Methyldiphenyljodoniumhydroxyd. Salze siehe (<i>J. pr.</i> 2 69, 330 <i>C.</i> 1904 [2] 36).
	2) 3'-Brom-4-Methyldiphenyljodoniumhydroxyd. Salze siehe (J. pr. [2] 69, 329 C. 1904 [2] 36).
$\mathbf{C_{13}H_{12}O_{2}NCl}$	 Acetat d. ε-[4-Chlorphenyl]imido-α-Oxy-αγ-Pentadiën. Sm. 129 (A. 333, 322 C. 1904 [2] 1149).
$\mathbf{C_{18}H_{12}O_{2}N_{2}S}$	12) 2-Naphtylpseudothiohydantoïnsäure. Sm. 195—230° (C. 1903 [2] 110).
$C_{18}H_{12}O_{8}N_{2}S$	11) α -Phenylsulfon- β -Phenylharnstoff. Sm. 158,4° (B. 37, 695 C. 1904 [1] 1074).
	12) 1-[4-Amidobenzyliden]amidobenzol-4-Sulfonsäure (D.R.P. 99542 C. 1899 [1] 238). — *III, 22.
$C_{18}H_{12}O_4N_2S$	12) 2-Methylphenylamid d. 3-Nitrobenzol-1-Sulfonsäure. Sm. 164° (Soc. 85, 1187 C. 1904 [2] 1115).
	13) 4-Methylphenylamid d. 3-Nitrobenzol-1-Sulfonsäure. Sm. 132° (Soc. 85, 1187 C. 1904 [2] 1115).
$C_{13}H_{12}O_5N_2S$	6) 3-Nitrobenzylidenphenylaminbisulfit. Sm. 177° (A. 316, 141). - *III, 21.
	 5-Nitro-2-Phenylamidophenylmethan-α-Sulfonsäure. Anilinsalz (D.R.P. 150366 C. 1904 [1] 1308).
$\mathbf{C_{13}H_{12}O_{5}N_{2}S_{2}}$	2) αβ-Di[Phenylsulfon]harnstoff. Sm. 159° (B. 37, 695 C. 1904 [1] 1074).
$\mathrm{C_{18}H_{12}O_5N_6S}$	1) 7-Phenylazo-2, 6-Diketo-1, 3-Dimethylpurin-7 ⁴ -Sulfonsäure. Sm. noch nicht bei 265° (B. 37, 704 C. 1904 [1] 1562).
$\mathbf{C_{18}H_{12}O_6N_4S}$	1) Amid d. 2',4'-Dinitro-2-Methyldiphenylamin-5-Sulfonsäure. Sm. 209° (B. 36, 34 C. 1903 [1] 521).
	2) Amid d. 2,'4'-Dinitro-4-Methyldiphenylamin-3-Sulfonsäure. Sm. 255° (B. 36, 34 C. 1903 [1] 521).
$\mathbf{C_{13}H_{12}O_6N_4S_2}$	2) 4'-Nitro-2'-Thioureïdo-4-Oxydiphenylamin-3-Sulfonsäure. (D.R.P. 139679 C. 1903 [1] 748).
$C_{18}H_{12}O_8N_2Br_2$	3) Diäthylester d. ?-Dibrom-?-Dinitrophenylmethan-αα-Dicarbonsäure (aus 3,4,5-Tribrom-1,2-Dinitropenzol). Sm. 103—104° (Am. 30,
$\mathbf{C_{18}H_{12}N_{3}ClS}$	74 C. 1903 [2] 855). 5) anti- α -Phenylamido- β -[8-Chlorphenyl]thioharnstoff. Sm. 120° (P. 22, 1084)
	(B. 32, 1084). 6) $syn-\alpha$ -Phenylamido- β -[3-Chlorphenyl]thioharnstoff. Sm. 168° (B. 32, 1084).
	7) anti- α -Phenylamido- β -[4-Chlorphenyl]thioharnstoff. Sm. 133° (B. 32, 1084).
	8) $\sin - \alpha$ - Phenylamido- β -[4-Chlorphenyl] thioharnstoff. Sm. 165° (B. 32, 1084).
$\mathbf{C_{13}H_{13}ON_{2}Cl}$	*2) Phenylamid d. Chlorpyridyliumessigsäure. Sm. 234° u. Zers. + HgCl ₂ , 2 + PtCl ₄ , + AuCl ₃ (Ar. 241, 124 C. 1903 [1] 1023).
$\mathrm{C_{18}H_{18}ON_{2}Br}$	1) Phenylamid d. Brompyridyliumessigsäure. Sm. 199—200° (Ar. 241, 124 C. 1903 [1] 1023).
$\mathbf{C_{18}H_{18}ON_{2}P}$	1) Phenylamid-4-Methylphenylimid d. Phosphorsäure. Sm. 188° (Soc. 83, 1045 C. 1903 [2] 663).
$\mathbf{C_{18}H_{18}O_{2}NS}$	*7) Methylphenylamid d. Benzolsulfonsäure. Sm. 77,5—78° (B. 36, 2706 C. 1903 [2] 829).
	13) 3-Methylphenylamid d. Benzolsulfonsäure. Sm. 95° (C. 1904 [1] 1075; Soc. 85, 375 C. 1904 [1] 1412).

$\mathbf{C_{13}H_{13}O_{2}NS_{2}}$	1) Methyläther d. 2-Thiocarbonyl-4-Keto-5-[2-Oxybenzyliden]-3-Aethyltetrahydrothiazol. Sm. 143° (M. 25, 175 C. 1904 [1] 895).
$\mathbf{C_{18}H_{18}O_{2}N_{2}Cl}$	2) Aethylester d. 5-Chlor-3-Methyl-I-Phenylpyrazol-12-Carbon- saure. Sd. 315° (B. 37, 2230 C. 1904 [2] 229).
$C_{18}H_{18}O_2N_3S$	1) Aethyläther d. 5 - Benzoylamido - 2 - Merkapto - 4 - Keto - 3, 4 - Di- hydro - 1, 3 - Diazin. Sm. 238 — 239 (Am. 32, 144 C. 1904 [2] 957).
$\mathrm{C_{13}H_{13}O_{3}NS}$	17) α- Phenylamido-α-Phenylmethan-α-Sulfonsäure. Na, Anilinsalz (B. 37, 4080, 4083 C. 1904 [2] 1722).
$\mathbf{C_{13}H_{13}O_{3}NS_{2}}$	 18) 4 - Methoxylphenylamid d. Benzolsulfonsäure. Sm. 95—96° (B. 37, 2810 C. 1904 [2] 592). 1) 53-Methyläther d. 2-Thiocarbonyl-4-Keto-5-[3,4-Dioxybenzyliden]-3-Aethyltetrahydrothiazol. Sm. 140° (M. 25, 176 C. 1904 [1] 895).
$\mathrm{C_{18}H_{13}O_4NS}$	5) 2-Oxybenzylidenamidobenzolbisulfit. Sm. 128° (A. 316, 142). — *III, 52.
$C_{18}H_{18}O_8N_2J$	1) Diäthylester d. 3-Jod-4, 6-Dinitrophenylmethandicarbonsäure? Sm. 83° (Am. 32, 305 C. 1904 [2] 1385).
$\mathrm{C_{13}H_{14}ON_{2}Cl_{4}}$	1) Verbindung (aus d. Chlormethyläther d. $\alpha \beta \beta$ -Trichlor- α -()xyäthan u. 2 Molec. Pyridin). $+$ PtCl, (A. 330, 130 C. 1904 [1] 1064).
$\mathrm{C_{13}H_{14}O_{2}NBr}$	5) Aethyläther d. 5-Brom-6-Oxy-2-Keto-1-Aethyl-1, 2-Dihydro- chinolin. Sm. 95—97° (B. 36, 461 C. 1903 [1] 590).
$\mathbf{C_{13}H_{14}O_{2}N_{2}S}$	7) 2-[2,4-Dimethylphenyl]imido-4-Keto-3-Acetyltetrahydro-thiazol. Sm. 165—166° u. Zers. (C. 1903 [2] 110).
$\mathbf{C_{18}H_{14}O_{8}N_{2}S}$	3) Verbindung (aus Dicyanbenzoylessigsäurcäthylester). Sm.160° (4.332, 151 C. 1904 [2] 192).
$\mathrm{C_{13}H_{14}O_{4}NJ}$	1) Verbindung (aus Ýahrdanataum u. Pyridin). Sm. 234° u. Zers. (G. 34 [1] 344 C. 1001 [2]
$\mathbf{C_{18}H_{14}O_{5}NCl}$	*1) Diacetat d. 4[oder 6]-Chlor-6[oder 4]-Acetylamido-2,5-Dioxy-1-Methylbenzol. Sm. 197—198° (A. 328, 318 C. 1903 [2] 1247).
$\mathbf{C_{18}H_{14}O_7N_4S_9}$	1) 4,4'-Diamido-s-Diphenylharnstoff-3,3'-Dicarbonsäure (D.R.P. 140613 C. 1903 [1] 1010).
$\mathbf{C_{18}H_{14}N_{2}ClBr}$	1) 2-Chlorallylat d. 5-Brom-3-Methyl-1-Phenylpyrazol. Sm. 182° (A. 331, 212 C. 1904 [1] 1219).
$\mathbf{C_{13}H_{14}N_{2}ClJ}$	1) 2-Chlorallylat d. 5-Jod-3-Methyl-1-Phenylpyrazol. Sm. 193 bis 194° (A. 331, 213 C. 1904 [1] 1219).
$\mathrm{C_{13}H_{15}ONBr_2}$	2) Bromäthylat d. 5-Brom-6-Oxychinolinäthyläther + 3II ₂ O. Sm. 80-85° (195° wasserfrei) (B. 36, 460 C. 1903 1 590).
$\mathbf{C}_{18}\mathbf{H}_{15}\mathbf{ONS}_{2}$	1) Gem. Anhydrid d. Benzolcarbonsäure u. Hexahydropyridin-l- Dithiocarbonsäure (N-Piperidyl-S-Benzoyldithiourethan). Sm. 89 bis 90° (B. 36, 3523 C. 1903 [2] 1326).
$\mathbf{C_{18}H_{15}ON_{2}Cl_{8}}$	 Verbindung (aus d. Chlormethyläther d. αβ-Dichlor-α-Oxyäthan u. 2 Molec. Pyridin). + PtCl₄, 2 + AuCl₈ (A. 330, 129 C. 1904 [1] 1064).
$\mathrm{C_{18}H_{15}ON_{8}S}$	1) Diäthyläther d. 5-Merkapto-3-Oxy-l-Phenyl-1, 3, 5-Triazin. Sm. 47-48° (Am. 32, 370 C. 1904 [2] 1506).
$C_{18}H_{15}O_8N_2Cl_3 \\ C_{18}H_{15}O_8N_2Br$	*1) Chloralantipyrin. Sm. 67-68° (C. 1903 2 19). 2) Propyläther d. 3-Brom-5-Nitro-2-Oxy-1-Methyl-1, 2-Dihydro-
	chinolin (J. pr. [2] 45, 186). — IV, 265. 3) Isopropyläther d. 3-Brom-5-Nitro-2-Oxy-1-Methyl-1, 2-Dihydrochinolin. Sm. 95° (J. pr. [2] 45, 187). — IV, 265.
$C_{18}\mathbf{H}_{15}O_{8}\mathbf{N}_{8}\mathbf{S}$	1) Aethylester d. 2-Phenylimido-5-0xy-2,3-Dihydro-1,3,4-Thio-
$\mathbf{C_{18}H_{15}O_4N_2Cl}$	diazol-3-[Aethyl-α-Carbonsäure]. Sm. 171°. Na (C. 1904 2 1028). 2) α-Chloracetylamidoactylamido-β-Phenylpropionsäure. Sm. 151
$\mathbf{C_{18}H_{15}O_4N_2Br}$	bis 152° (B. 37, 3315 C. 1904 [2] 1307). 1) α-Brom-β-Phenylpropionylamidoacetylamidoessigsäure. Sm. 157
$\mathrm{C_{18}H_{15}O_{5}NS}$	bis 158° (B. 37, 3066 C. 1904 [2] 1207). 1) 4-Methylbenzolsulfonat d. α-Cyan-β-Oxypropen-α-Carbonsäure.
$\mathrm{C_{13}H_{15}O_{5}BrS}$	Sm. 116° (Bl. [3] 31, 340 C. 1904 [1] 1135). 1) $\alpha \gamma$ -Sulton d. β -Brom- α -Oxy- α -Phenylbutan- γ -Sulfonsäure- δ -Car-
$C_{18}H_{16}ONBr$	bonsäureäthylester. Sm. 121° (Am. 31, 255° C. 1904 [1] 1081). 2) 8-Brom-5-Propionylamido-1, 2, 3, 4-Tetrahydronaphtalin. Sm. 185—186° (Soc. 85, 746° C. 1904 [2] 447).

$\mathbf{C_{18}H_{16}ON_{2}Cl_{2}}$	1) Verbindung (aus d. Chlormethyläther d. α-Chlor-α-Oxyäthan und
$\mathrm{C_{13}H_{16}O_{2}NBr}$	Pyridin). + PtCl ₄ , + 2 AuCl ₃ (A. 330, 125 C. 1904 [1] 1064). 3) 3-Brom-4-Methylphenylester d. Hexahydropyridin-1-Carbon-
$\mathbf{C_{13}H_{16}O_{2}N_{2}Cl_{2}}$	säure. Sm. 75—76°; Sd. 262° ₃₄ (Bl. [3] 29 , 754 C. 1903 [2] 629). 1) Verbindung (aus d. Methylenäther d. Chloroxymethan u. Pyridin).
	$+ \text{ PtCl}_4$, $+ 2\text{ AuCl}_3$ (A. 334, 37 C. 1904 [2] 948).
$C_{13}H_{16}O_2N_2S$	2) 5-Isopropylsulfon-3-Methyl-1-Phenylpyrazol. Sm. 83° (A. 331, 236 C. 1904 [1] 1221).
	3) 5-Aethylsulfon-3,4-Dimethyl-1-Phenylpyrazol. Sm. 115° (A. 331, 244 C. 1904 [1] 1221).
$C_{18}\mathbf{H}_{18}O_4\mathbf{NCl}$	1) Aethylester d. 1- α -Chloracetylamido- β -[4-Oxyphenyl]propionsäure. Sm. 87-88° (B. 37, 2495 C. 1904 [2] 425).
$C_{13}H_{17}ON_8S$	1) I-Phenylamido-2-Thiocarbonyl-4-Keto-5,5-Dimethyl-3-Aethyltetrahydroimidazol. Sm. 85° (C. 1904 [2] 1028).
$\mathbf{C_{18}H_{17}O_{2}NBr_{2}}$	2) Acetat d. Diäthyl-3,5-Dibrom-2-Oxybenzylamin (A. 332, 221
$\mathbf{C_{18}H_{17}O_{2}N_{2}Br}$	C. 1904 [2] 203). 1) Methylester d. γ -[4-Bromphenyl]hydrazon- β -Methylbutan- β -
$\mathbf{C_{18}H_{17}O_6N_2Cl}$	Carbonsäure. Sm. 90° (Soc. 83, 1231 C. 1903 [2] 1420). 1) 4-Chlorbenzoylhydrazon d. d-Glykose. Zers. bei 211° (C. 1904
	[2] 1493).
$\mathrm{C_{18}H_{17}O_6N_9Br}$	1) 4-Brombenzoylhydrazon d. d-Galaktose. Zers. bei 216° (C. 1904 [2] 1493).
	2) 4-Brombenzoylhydrazon d. d-Glykose. Zers. bei 206—207° (C. 1904 [2] 1493).
	3) 4-Brombenzoylhydrazon d. d-Mannose (C. 1904 [2] 1493).
$C_{13}H_{17}N_{2}CIS$	1) 2-Chlormethylat d. 5-Merkapto-3, 4-Dimethyl-1-Phenylpyrazol-
$C_{13}H_{17}N_2JS$	5-Methyläther. Sm. 91°. 2 + PtCl ₄ (A. 331, 218 C. 1904 [1] 1219). 2) 2-Jodmethylat d. 5-Merkapto-3,4-Dimethyl-l-Phenylpyrazol-
10 11 2	5-Methyläther. Sm. 167° (A. 331, 218 C. 1904 [1] 1219).
	3) 2-Jodmethylat d. 5-Merkapto-3-Methyl-1-Phenylpyrazol- 5-Aethyläther. Sm. 158° (A. 331, 201, 234 C. 1904 [1] 1218).
	4) 2-Jodathylat d. 5-Merkapto-3-Methyl-1-Phenylpyrazol-
	5-Methyläther. Sm. 203° (A. 331, 209, 227 C. 1904 [1] 1219).
$C_{13}H_{18}ONC1$	 Nitrosochlorid d. α-[2,4,6-Trimethylphenyl]-β-Methylpropen. Sm. 136° (B. 37, 929 C. 1904 [1] 1209).
$\mathrm{C_{18}H_{18}ON_2S}$	4) s-Caproylphenylthioharnstoff. Sm. 77-78° (Soc. 85, 809 C. 1904
$C_{18}H_{18}O_2NCl$	[2] 201, 519). 2) Chlormethylat d. 1, 2, 3, 4-Tetrahydrochinolin-1-Essigsäure-
	methylester. 2 + PtCl ₄ (Soc. 83, 1417 C. 1904 [1] 439).
$C_{18}H_{18}O_4NJ$	 Jodmethylat d. 3,4,5-Trioxy-1-[β-Dimethylamidoäthyl]benzol- 4,5-Methylenäther-2-Carbonsäurealdehyd (Norcotarninmethin-
	methyljodid). Sm. 272° (B. 36, 1529 C. 1903 [2] 52).
$C_{18}\mathbf{H}_{18}O_6\mathbf{N}_2\mathbf{S}$	1) Tetraoxybutyl-N-Phenylthiohydantoïnsäure. Sm. 178—180° u. Zers. (B. 35, 4014 C. 1903 [1] 390).
$C_{18}H_{19}O_2NS$	d. Zers. (B. 35, 4014 C. 1905 [1] 550). 4) Sultam d. γ -Oxy- γ -Phenylpentan- γ^2 -Sulfonsäureäthylamid.
018-19-2	Sm. 140—150° (B. 37, 3259 C. 1904 [2] 1031).
$C_{18}H_{19}O_2N_2C1$	 Verbindung (aus Chlordimethyläther u. Cytisin). + AuCl₃ (A. 334, 56 C. 1904 [2] 949).
$C_{18}H_{20}O_2NBr$	1) Menthylester d. Bromcyanessigsäure. Sm. 134—135° (C. 1903) [1] 566; Soc. 85, 44 C. 1904 [1] 789).
$\mathbf{C_{18}H_{20}O_{3}NP}$	1) Diäthylester d. 1,2,3,4-Tetrahydro-1-Chinolylphosphinsäure.
$C_{18}H_{20}O_5NP$	Sd. 155% (A. 326, 188 C. 1903 [1] 820). 1) Triäthylester d. Phenylamidophosphinsäure-3-Carbonsäure.
-1820 - 3	Sd. 232-234° (A. 326, 242 C. 1903 [1] 868).
	2) Triäthylester d. Phenylamidophosphinsäure-4-Carbonsäure. Sd. 206—207° (A. 326, 244 C. 1903 [1] 868).
$\mathbf{C_{18}H_{21}O_{2}N_{2}J}$	2) Jodäthylat d. Isopilocarpin (B. 35, 2454). — *III, 685 .
$C_{18}H_{21}O_3NS$	3) Aethylamid d. γ-Oxy-γ-Phenylpentan-γ ² -Sulfonsäure. Sm. 99 bis
	100° (B. 37, 3258 C. 1904 [2] 1031). 4) Verbindung (aus Aethylsaccharin). Sm. 99—100° (B. 37, 389
	C. 1904 [1] 669).
C ₁₈ H ₂₆ ONJ	1) Jodmethylat d. Dimethyllupinin. Fl. (B. 35, 1924). — *III, 664. 1) Brommethylat d. δ -Dimethylamidobutan- $\alpha\alpha$ -Dicarbonsäure-
$C_{18}H_{26}O_4NBr$	diäthylester (B. 37, 1855 C. 1904 [1] 1487).

13 IV—V. 1) Aethyläther d. Dipiperidylmethyloxyphosphoniumhydroxyd $C_{13}H_{29}O_2N_2P$ (A. 326, 167 C. 1903 [1] 762). 1) Di[Dipropylamid] d. Methylphosphinsäure. Sd. 176—180 $^{\rm 0}_{\rm u5}$ $C_{13}H_{31}ON_{2}P$ (A. 326, 165 C. 1903 [1] 762). - 13 V -C₁₈H₈O₅N₂ClBr 1) 4'-Chlor-3-Brom-P-Dinitrodiphenylketon. Sm. 1650 (B. 37, 3486 C. 1904 [2] 1131). 1) 2,4,6-Tribromphenylchloramid d. Benzolcarbonsäure. Sm. 1150 C12H7ONClBr3 (Soc. 85, 181 C. 1904 [1] 938). C₁₈H₇ONCl₂Br₂ 1) 2-Chlor-4, 6-Dibromphenylchloramid d. Benzolcarbonsäure. Sm. 97° (Soc. 85, 182 C. 1904 [1] 938). 2) 4-Chlor-2, 6-Dibromphenylchloramid d. Benzolcarbonsäure. Sm. 111° (Soc. 85, 181 C. 1904 [1] 938). C18H7ONCl8Br 1) 2, 4-Dichlor-6-Bromphenylchloramid d. Benzolcarbonsäure. Sm. 92° (Soc. 85, 182 C. 1904 [1] 938). 2) 2, 6-Dichlor-4-Bramphan-lablaramid d. Benzolcarbonsäure. Sm. 95° (Soc. 85, . . . 1901 C13H8ONClBr2 2) 4-Chlor-2,6-Dibromphenylamid d. Benzolcarbonsäure. Sm. 1940 (Soc. 85, 181 C. 1904 [1] 938). C₁₈H₈ONCl₂Br 1) 2,6-Dichlor-4-Bromphenylamid d. Benzolcarbonsäure. Sm. 1956 (Soc. 85, 181 C. 1904 [1] 938). 2) 2-Chlor-4-Bromphenylchloramid d. Benzolcarbonsäure. Sm. 740 (Soc. 85, 180 C. 1904 [1] 938). 3) 4-Chlor-2-Bromphenylchloramid d. Benzolcarbonsäure. Sm. 620 (Soc. 85, 180 C. 1904 [1] 938). C, H, O, NBrS 1) Phenylimid d. 4-Brombenzol-1-Carbonsäure-2-Sulfonsäure. Sm. 184,5° (Am. 30, 493 C. 1904 [1] 370). 1) 2-Chlorid d. 4-Nitrobenzol-1-Carbonsäurephenylester-2-Sulfon-C13H8O8NCl2S säure. Sm. 145—147° (Am. 30, 375 C. 1904 [1] 275). C₁₃H₉ONClBr 4) 2-Chlor-4-Bromphenylamid d. Benzolcarbonsäure. Sm. 145° (Soc. 85, 180 C. 1904 [1] 938). 5) 4-Chlor-2-Bromphenylamid d. Benzolcarbonsäure. Sm. 130,5° (Soc. 85, 180 C. 1904 [1] 938). 1) 2,4-Dichlorphenylchloramid d. 1-Methylbenzol-4-Sulfonsäure. C₁₂H₁₀O₂NCl₂S Sm. 81° (Soc. 85, 1186 C. 1904 [2] 1115). $C_{13}H_{11}O_{2}NCl_{2}S$ 1) 4 - Chlorphenylchloramid d. 1 - Methylbenzol - 4 - Sulfonsäure. Sm. 102° (Soc. 85, 1185 C. 1904 [2] 1115). 2) 2, 4 - Dichlorphenylamid d. 1 - Methylbenzol - 4 - Sulfonsäure.
 Sm. 126° (Soc. 85, 1186 C. 1904 [2] 1115). 3) 2,4-Dichlor-3-Methylphenylamid d. Benzolsulfonsäure. Sm. 114° (C. 1904 [1] 1075; Soc. 85, 376 C. 1904 [1] 1412). 3) 2 - Methylphenylchloramid d. 3 - Nitrobenzol - 1 - Sulfonsäure. $C_{13}H_{11}O_4N_2ClS$ Sm. 118° u. Zers. (Soc. 85, 1187 C. 1904 [2] 1115). 4) 4 - Methylphenylchloramid d. 3 - Nitrobenzol - 1 - Sulfonsäure. Sm. 115° (Soc. 85, 1187 C. 1904 [2] 1115).
5) Phenylchloramid d. 1 - Methylbenzol - 4 - Sulfonsäure. Sm. 91° C18H19O2NCIS

(Soc. 85, 1184 C. 1904 [2] 1115).

6) 4-Chlorphenylamid d. 1-Methylbenzol-4-Sulfonsäure. (Soc. 85, 1184 C. 1904 [2] 1115).

7) 5-Chlor-2-Methylphenylamid d. Benzolsulfonsäure. Sm. 124 bis 125° (C. 1904 [1] 1075; Soc. 85, 374 C. 1904 [1] 1412).

8) 4-Chlor-3-Wathylphanismid d. Benzolsulfonsäure. Sm. 130°. Na (C. 1904) ; 85, 375 C. 1904 [1] 1412).

9) 2-Chlor-4-Methylphenylamid d. Benzolsulfonsäure. Sm. 110° (C. 1904 [1] 1075; Soc. 85, 376 C. 1904 [1] 1412).

10) 2-Methylphenylchloramid d. Benzolsulfonsäure. Sm. 99-100° (106°) (C. 1904 [1] 1075; Soc. 85, 374 C. 1904 [1] 1411; Soc. 85, 1186 C. 1904 [2] 1115).

11) 4 - Methylphenylchloramid d. Benzolsulfonsäure. Sm. 86 ° (Soc. 85, 1186 C. 1904 [2] 1115).

- C13H12O2NJS 1) Methylphenylamid d. 4-Jodbenzol-1-Sulfonsäure. Sm. 1110
 - (A. 332, 58 C. 1904 [2] 41).
 2) 3-Jodphenylamid d. 1-Methylbenzol-4-Sulfonsäure. Sm. 128° (A. 332, 61 C. 1904 [2] 41).
- C₁₃H₁₈O₂NClP 1) 4 - Methylphenylmonamid d. Phenylphosphorsäurechlorid.
- Sm. 77° (A. 326, 237 C. 1903 [1] 867).

 1) 4 Bromphenylmonamid d. Phosphorsäuremono [4 Methyl-C₁₈H₁₃O₃NBrP phenylester]. Sm. 230° (A. 326, 233 C. 1903 [1] 867).
- β-Chlorpropylthiopyrintrioxyd + H₂O. Sm. 244° u. Zers. (A. 331, 214 C. 1904 [1] 1219).
 Chlormethylat d. 5-Methylsulfon-3,4-Dimethyl-1-Phenylpyr-C18H15O8N8CIS
- $C_{13}H_{17}O_2N_2ClS$ azol. Sm. 81°. 2 + PtCl₄ (A. 331, 243 C. 1904 [1] 1221).
- 1) Jodmethylat d. 5-Methylsulfon-3, 4-Dimethyl-1-Phenylpyrazol. $C_{13}H_{17}O_2N_2JS$ Sm. 188° (A. 331, 242 C. 1904 [1] 1221).
- C₁₃H₁₇O₄NBrJ 1) Jodnethylat d. 6 - Brom - 3, 4, 5 - Trioxy-1- $[\beta$ -Dimethylamidoäthyl|benzol - 3 - Methyläther - 4, 5 - Methylenäther - 2 - Carbonsäurealdehyd (Bromnorcotarninmethinmethyljodid). Zers. bei 264° (B. 36, 1535 C. 1903 [2] 52).
- 1) Aethyläther d. Dipiperidylmethyloxyphosphoniumjodid (A. 326, $C_{18}H_{28}ON_9JS$ 166 C. 1903 [1] 762).

— 13 VI —

C₁₃H₁₃ONClSP 1) Benzylmonamid d. Phenylthiophosphorsäuremonochlorid. Fl. (A. 326, 205 C. 1903 [1] 821).

C14-Gruppe.

- $C_{14}H_{10}$
- $C_{14}H_{12}$
- *1) Anthracen (D.R.P. 141186 C. 1903 [1] 1197).
 *3) Phenanthren (B. 37, 4145 C. 1904 [2] 1655).
 *2) αα-Diphenyläthen (B. 37, 1449 C. 1904 [1] 1352).
 *3) Stilben. Sm. 124—125° (B. 36, 1194 C. 1903 [1] 1179; B. 36, 4266 C. 1904 [1] 374; R. 21, 449 C. 1903 [1] 503; B. 37, 453 C. 1904 [1] 949).
 9) Kohlenwasserstoff (aus Phenylpropiolsäurechlorid). Sm. 95° (Soc. 85, 1325 C. 1904 [2] 1245). C. 1904 [2] 1645).
- C14H14
- *1) αα-Diphenyläthan. Sd. 268—270° (B. 37, 1450 C. 1904 [1] 1352). *4) 2, 2'-Dimethylbiphenyl. Sm. 17,8°; Sd. 258°₇₃₇ (A. 332, 42 C. 1904 [2] 39).
 - *6) 3,3'-Dimethylbiphenyl. Sd. 283°₇₁₈ (B. 37, 1401 C. 1904 [1] 1443; A. 332, 43 C. 1904 [2] 39).
 - *7) 4,4'-Dimethylbiphenyl. Sm. 121° (122°); Sd. 295°, 60 (B. 36, 1011 C. 1903 [1] 1078; A. 322, 44 C. 1904 [2] 39).

 19) Tetrahydroanthracen. Sm. 89°; Sd. 309—313° (C. r. 139, 605 C. 1904
 - [2] 1573).
- 6) Oktohydroanthracen. Sm. 71°; Sd. 292—295°. Pikrat (C. r. 139, 605) C14H18 C. 1904 [2] 1574).
 - Kohlenwasserstoff (aus α-Oxy-α-Phenyl-α-Hexahydrophenyläthan). Sd. 260°₇₅₅ (C. r. 139, 345 C. 1904 [2] 705).
- C 89,4 H 10,6 M. G. 188.

 1) γ-Phenyl-δ-Okten. Sd. 104°₈ (B. 36, 1406 C. 1903 [1] 1347). $C_{14}H_{20}$
 - 2) α -[2,4,6-Trimethylphenyl]- γ -Methyl- α -Buten. Sd. 239—240 $^{\circ}_{758}$ (B. 37, 930 C. 1904 [1] 1209).
- *4) 1,4-Dipseudobutylbenzol. Sm. 76°; Sd. 236,5° (Bl. [3] 31, 969 C. 1904 C,4H,2
 - [2] 1112).
 *8) 1,2,4,5-Tetraäthylbenzol. Sd. 248°₇₅₅ (B. 36, 1635 C. 1903 [2] 26).
 13) 2-Isoamyl-1,3,5-Trimethylbenzol. Sd. 241—243°₇₄₇ (B. 37, 1720 C. 1904
- [1] 1489). *9) bim. $\beta \delta$ -Dimethyl- $\alpha \gamma$ -Pentadiën. Sd. 98-100 $^{0}_{12}$ (B. 37, 3579 C. 1904) $C_{14}H_{24}$
 - [2] 1376). 10) 2-Methyl-6-[3-Methylhexahydrophenyl]-1,2,3,4-Tetrahydrobenzol.
 - Sd. 257—259° (C. 1904 [1] 1346).

C14H8O8

Table 1

11) 4-[β -Aethylbutenyl]-1,1,5-Trimethyl-2,3-Dihydro-R-Penten (Diathylcampholandien). Sd. 222-224° (Bl. [3] 31, 463 C. 1904 [1] 1516). C,4H24

*8) 3,3'-Dimethyldodekahydrobiphenyl. Sd. 264-266° (B. 37, 853 C. 1904) C14H26 [1] 1146).

10) Disuberyl (Bi-R-Heptamethylenyl). Sd. 290—291°₇₂₈ (C. 1903 [1] 568; A. **327**, 70 °C. **1903** [1] 1124).

11) Kohlenwasserstoff (aus Butyronpinakon). Sd. 216-218° (M. 25, 125 C. 1904 [1] 716).

12) Kohlenwasserstoff (aus Petroleum). Sd. 160-165% (C. 1904 [1] 61).

- 14 II -

2) Morphenolchinon (B. 33, 357). — *III, 321.
*1) Ellagsäure. Na₂, K, K₂ (B. 36, 212 C. 1903 [1] 456; Soc. 83, 133 C. 1903 [1] 89, 466; D.R.P. 137033, 137034 C. 1903 [1] 111).
*2) a-Tetrachloranthracen. Sm. 163° (C. r. 135, 1122 C. 1903 [1] 283). $C_{14}H_6O_4$ $C_{14}H_6O_8$ C14H6Cl4 *2) 1,2-Anthrachinon (B. 36, 4020 C. 1904 [1] 168). C14H8O2 *2) 1-Oxy-9,10-Anthrachinon (D.R.P. 145238 C. 1903 [2] 1099). $C_{14}H_8O_3$ *8) 9-Ketofluoren-2-Carbonsäure. subl. oberh. 275° (M. 25, 451 C. 1904

[2] 450). *4) 1,4-Dioxy-9,10-Anthrachinon (Chinizarin) (D.R.P. 146223 C. 1903 C14H8O4 [2] 1299; D.R.P. 153129 C. 1904 [2] 751).

*5) 1,5-Dioxy-9,10-Anthrachinon (D.R.P. 145238 C. 1903 [2] 1099). *6) Chrysazin. K (D.R.P. 145238 C. 1903 [2] 1099; B. 36, 2941 C. 1903 [2] 886; B. 36, 4198 C. 1904 [1] 290).

*8) 1,7-Dioxy-9,10-Anthrachinon. Sm. 292—293 (B. 36, 4198 C. 1904 [1] 290).

*10) Anthraflavinsäure (D.R.P. 137948 C. 1903 [1] 268; D.R.P. 140128 C. 1903 [1] 903).

*12) 2,7-Dioxy-9,10-Phenanthrenchinon. Sm. oberh. 400° u. Zers. (B. 36, 3741 C. 1904 [1] 37; B. 37, 3087 C. 1904 [2] 1056). 19) 1,6-Dioxy-9,10-Anthrachinon. Sm. 260° (D.R.P. 145188 C. 1903

[2] 1037).

20) 3,4-Dioxy-9,10-Phenanthrenchinon (Morpholchinon) (B. 32, 1522, 2379 Anm.; 33, 352, 1810). — *III, 318.

21) 4,5-Dioxy-9,10-Phenanthrenchinon. Zers. oberh. 400° (B. 36, 3750 C. 1904 [1] 38).

22) 3,4-β-Naphtopyron-2-Carbonsäure (β-Naphtocumarin-α-Carbonsäure). Sm. 234° (B. 36, 1972 C. 1903 [2] 377).

23) Anhydrid d. 4-Acetylnaphtalin-1,8-Dicarbonsaure. Sm. 1890 (A. 327, 94 C. 1903 [1] 1228).

*4) Flavopurpurin (D.R.P. 137948 C. 1903 [1] 268; D.R.P. 140127 C. 1903 [1] 903; D.R.P. 140129 C. 1903 [1] 904).
10) 1,2,4-Trioxy-9,10-Anthrachinon (D.R.P. 153129 C. 1904 [2] 751). C14H8O5

11) Anhydrid d. $\alpha\delta$ - Di [2 - Furanyl] - $\alpha\gamma$ - Butadiën - $\beta\gamma$ - Dicarbonsäure. Sm. 187° (Soc. 85, 188 C. 1904 [1] 644, 925).

12) 1,2-Carbonat-3-Benzoat d. 1,2,3-Trioxybenzol. Sm. 149° (B. 37, 108 C. 1904 [1] 584).

C14H8O8 *12) 1,4,5,8-Tetraoxy-9,10-Anthrachinon (D.R.P. 143804 C. 1903 [2] 476). 13) 1,2,7,8-Tetraoxy-9,10-Anthrachinon (D.R.P. 103988 C. 1899 [2] 922).

— *III, 314.

14) 1,6,P,P-Tetraoxy-9,10-Anthrachinon. Sm. 217° (B. 36, 2937 C. 1903 [2] 885).

15) isom. 1,6,?,?-Tetraoxy-9,10-Anthrachinon. Sm. 292° (B. 36, 2941 O. 1903 [2] 886). *1) Rufigallussäure (C. 1903 [1] 398).

5) isom. Hexaoxy - 9,10 - Anthrachinon (D. R. P. 66153, 103988). -*III, 315. C14H8Br2 *3) α-Dibromphenanthren. Sm. 146° (B. 37, 3027 C. 1904 [2] 1225).

*7) 4,9 [oder 4,10] - Dibromphenanthren. Sm. 112—113° (B. 37, 3554 C. 1904 [2] 1399).

8) 3,9 [oder 3,10]-Dibromphenanthren. Sm. 146° (B. 37, 3576 C. 1904 [2] 1404).

 $C_{14}H_0N$ 2) Nitril d. Fluoren-2-Carbonsäure. Sm. S8 (M. 25, 446 C. 1904 [2] 449).

4) Verbindung (aus 3-Amido-2-Phenylindol). Sm. 115° (C. 1904 [1] 1357).
*2) 9-Oxyanthracen. Sm. 161° (A. 330, 182 C. 1904 [1] 892).
*5) 9-Oxyphenanthren. Sm. 149° (B. 36, 2517 C. 1903 [2] 507). $\mathbf{C_{14}H_9N_3}$ $C_{14}H_{10}O$ 10) 1-Oxyanthracen. Sm. 152° (B. 37, 70 C. 1904 [1] 666). 11) 1-Phenylbenzfuran. Sm. 120-121° (B. 36, 3981 C. 1904 [1] 171; B. 36, 4006 C. 1904 [1] 175). 12) 2-Phenylbenzfuran. Sm. 12—13° (und 42°); Sd. 316—317°, 60 (B. 36, 4004 *C.* **1904** [1] 174). *9) 9,10-Dioxyphenanthren (D.R.P. 151981 C. 1904 [2] 167; B. 37, 3085 $C_{14}H_{10}O_{2}$ C. 1904 [2] 1056). *16) Benzil. $+ H_2SO_4$ (R. 21, 355 C. 1903 [1] 151). 31) $\alpha\beta$ -Di[4-Oxyphenyl]äthin. Sm. 220—225° (A. 335, 184 C. 1904 [2] 1130). 32) 1,2-Dioxyanthracen. Sm. 131° u. Zers. (B. 36, 4020 C. 1904 [1] 168). 33) Methyläther d. 3-Oxy-9-Ketofluoren. Sm. 99° (B. 35, 4278 C. 1903 34) Stilbenchinon (A. 335, 168 C. 1904 [2] 1128). 35) 2-Acetyl- β -Naphtofuran. Sm. 115—116 (B. 36, 2866 C. 1903 [2] 832). 36) 4-Methyl-1, 2-α-Naphtopyron (β-Methyl-α-Naphtocumarin). Sm. 1670 (B. 36, 1967 C. 1903 [2] 376). 37) 2-Methyl-3, 4-β-Naphtopyron (α-Methyl-β-Naphtocumarin). Sm. 157 bis 158° (B. 36, 1969 C. 1903 [2] 377). 38) Fluoren-2-Carbonsäure. Zers. oberh. 260°. Ag (M. 25, 448 C. 1904 39) Aldehyd d. Biphenyl-4, 4'-Dicarbonsäure. Sm. 145° (A. 332, 76 C. 1904 [2] 43). *22) Anhydrid d. Benzolcarbonsäure (Am. 31, 261 C. 1904 [1] 1078).
*33) 8-Oxy-7-Methylfluoron. HCl (M. 25, 313 C. 1904 [1] 1494).
37) 2,3,9-Trioxyanthracen. Sm. 282° (B. 36, 2938 C. 1903 [2] 886).
38) Säure (aus p-Kresol). Zers. bei 100° (B. 36, 2032 C. 1903 [2] 360). $C_{14}H_{10}O_{3}$ *2) 1,4,9,10-Tetraoxyanthracen (Leukochinizarin). Sm. 150° (153-154°) $C_{14}H_{10}O_4$ (C. 1904 [1] 101; D.R.P. 148792 C. 1904 [1] 557). *20) Biphenyl-3, 3'-Dicarbonsäure. Sm. 356-357° (A. 332, 71 C. 1904 [2] 42). 31) 2-[3-Oxybenzoyl]benzol-1-Carbonsäure. Sm. 181—182° (D.R.P. 148110 C. 1904 [1] 329). 32) Monophenylester d. Benzol-1, 2-Dicarbonsäure. Sm. 1030 (B. 35, 4092 *C.* **1903** [1] 75). 14) 2,3,7-Trioxy-9-Methylfluoron (B. 37, 1177 C. 1904 [1] 1161; B. 37, $C_{14}H_{10}O_5$ 2731 C. 1904 [2] 541). *14) $\alpha\delta$ -Di[2-Furanyl]- $\alpha\gamma$ -Butadiën- $\beta\gamma$ -Dicarbonsäure. Sm. 185—187°. C14H10O8 Na₂ (Soc. 85, 190 C. 1904 [1] 645, 925). 16) 1,4,5,8,9,10-Hexaoxyanthracen (D.R.P. 148792 C. 1904 [1] 557) 10) Bisanhydro-2-Amidobenzaldehyd. Sm. 81°; Sd. 212—216°₁₉. (2HCl, PtCl₄) (C. r. 136, 371 C. 1903 [1] 635). $C_{14}H_{10}N_{2}$ 6) β -Brom- α -Phenyl- α -[4-Bromphenyl] athen. Sm. 107° (B. 37, 4168) $C_{14}H_{10}Br_2$ C. 1904 [2] 1643). 7) isom. β -Brom- α -Phenyl- α -[4-Bromphenyl]äthen. Sm. 35° (B. 37, 4168 C. 1904 [2] 1643). Sm. 137—138° (145—150°). HNO₃, H₂SO₄, *3) 9-Amidophenanthren. $C_{14}H_{11}N$ Oxalat (B. 36, 2515 C. 1903 [2] 506; A. 330, 165 C. 1904 [1] 891; B. 37, 3575 C. 1904 [2] 1404). *11) 3-Methylakridin. Sm. 132,5° (A. 332, 92 C. 1904 [1] 1570). 26) 1-[1-Naphtyl]pyrrol. Sm. 42°; Sd. oberh. 360° (B. 37, 2795 C. 1904 [2] 531). 27) 1-[2-Naphtyl]pyrrol. Sm. 107°; Sd. oberh. 360° (B. 37, 2795 C. 1904 [2] 531). 28) 2-[2-Naphtyl]pyrrol. Sm. 155° (B. 37, 2796 C. 1904 [2] 531). *5) 2,5-Diphenyi-1,3,4-Triazol. Sm. 190' (J. pr. [2] 69, 160 C. 1904 C14H11N3 [1] 1274). 11) 1, 5-Diphenyl-1, 2, 3-Triazol. Sm. 113-114°. HCl (B. 35, 4048 Ć. 1903 [1] 169). *1) Nitril d. Formazylcarbonsäure. Sm. 158° (J. pr. [2] 67, 400 C. 1903

C14H11N5

[1] 1346).

$C_{14}H_{11}Cl$	5) α-Phenyl-β-[2-Chlorphenyl]äthen. Sm. 40°; Sd. 195° ₂₂ (B. 35, 3970
$\mathbf{C_{14}H_{11}Br}$	 C. 1903 [1] 31). 4) 4-Brom-αα-Diphenyläthen. Sd. 199-201°₁₉ (B. 37, 4168 C. 1904)
$C_{14}\mathbf{H}_{19}O$	[2] 1643). *6) 3-Methyldiphenylketon. Sd. 310-320° (B. 37, 3360 C. 1904 [2]
	1127). *8) Desoxybenzoïn. Sm. 55° (B. 36, 1497 C. 1903 [1] 1351; B. 36, 1580 C. 1903 [1] 1398).
	*10) Aldehyd d. Diphenylessigsäure. Sd. 168—170° ₁₀ (C. r. 138, 91 C. 1904 [1] 505; Bl. [3] 31, 307 C. 1904 [1] 1133).
	18) 2-Oxy-αα-Diphenyläthen. Sd. 180° ₂₂ (B. 36, 3999, 4003 C. 1904 [1] 174).
	19) Phenyläther d. β-Oxy-α-Phenyläthen. Sd. 180° ₁₆ (B. 36, 4010 Anm. C. 1904 [1] 176).
	20) 3-Acetylacenaphten. Sm. 75°; Sd. 361°. Pikrat (A. 327, 91 C. 1903 [1] 1228).
	21) I-Phenyl-1,2-Dihydrobenzfuran. Sm. 32—33° (B. 36, 3982 C. 1904 [1] 171).
	22) 2-Phenyl-1, 2-Dihydrobenzfuran. Sm. 38,5°; Sd. 167°,4 (B. 36, 3984 C. 1904 [1] 171; B. 36, 4008 C. 1904 [1] 175).
	23) Verbindung (aus Eberwurzelöl). Sd. 158-160° ₁₆₋₁₇ (Ar. 241, 46 C. 1903 [1] 713).
$C_{14}\mathbf{H}_{12}O_2$	*4) αβ-Di[4-Oxyphenyl]äthen. Sm. 280—281° u. Zers. (A. 325, 26 C. 1903 [1] 460; A. 335, 187 C. 1904 [2] 1131).
	*7) Benzoin. Sm. 212° (B. 36, 1580 C. 1903 [1] 1398; B. 36, 2829 C. 1903 [2] 1128). *13) Methyläther d. 4-Oxydiphenylketon. Sm. 61-62° (B. 37, 226
	C. 1904 [1] 659). *32) 6 - Oxy - 3 - Methyldiphenylketon. Sm. 84° (B. 36, 3892 C. 1904
	[1] 93). 40) Verbindung (aus αβ-Di[4-Oxyphenyl]äthen). Sm. 250° u. Zers. (4. 325,
$C_{14}H_{12}O_{3}$	28 C. 1903 [1] 460). *9) 2-Oxydiphenylessigsäure (B. 36, 3999 C. 1904 1] 174).
0144-1203	*22) Methylester d. 2-Oxybenzolphenyläther-1-Carbonsäure. Sd. 312° (B. 37, 2368 C. 1904 [2] 344).
	*41) Phenylester d. 4-Oxy-I-Methylbenzol-3-Carbonsäure. Sm. 92-930 (D.R.P. 46756). — *II, 920.
	*43) Benzylester d. 2-Oxybenzol-1-Carbonsäure (D.R.P. 144002 C. 1903 [2] 1040).
	44) α -Keto- $\alpha\beta$ -Di[4-Oxyphenyl]äthan. Sm. 214–215° (A. 325, 75 C. 1903 [1] 463).
	45) Monomethyläther d. 4, 4'-Dioxydiphenylketon. Sm. 151-1520 (B. 36, 3900 C. 1904 [1] 94).
	46) Methyläther d. 2-[4-Oxybenzyl]-1,4-Benzochinon. Sm. 43° (B. 37, 3488 C. 1904 [2] 1301).
	47) Aldehyd d. 3,4-Dioxybenzol-3-Benzyläther-1-Carbonsäure. Sm. 113—114° (D.R.P. 82816). — *III, 74. 48) Aldehyd d. 3,4-Dioxybenzol-4-Benzyläther-1-Carbonsäure. Sm.
	122° (D.R.P. 82816). — *III, 74. 49) Phenylester d. 2-Oxy-1-Methylbenzol-3-Carbonsäure. Sm. 48°
	(D.R.P. 46756). — *II, 919. 50) Acetat d. 2-Oxydiphenyläther. Sd. 358—360° (Am. 29, 127 U. 1903
$C_{14}H_{12}O_4$	33) Benzyl-2,3,4-Trioxyphenylketon. Sm. 141-142** (D.R.P. 50450)
	34) Aethylester d. 6-Phenyl-1, 2-Pyron-3-Carbonsäure. Sm. 1071080
	(B. 56, 5670 C. 1903 [2] 1313). 35) Verbindung (aus d. 4.4'-Diamido-3.3'-Diavyhinhenyldimethyläthan)
$C_{14}H_{12}O_6$	(Soc. 83, 692 C. 1903 [2] 39). 14) Diacetat d. 5,7-Dioxy-2-Methyl-1,4-Benzpyron. Sm. 149 (B. 37,
	2101 C. 1904 [2] 122). 15) Diacetat d. 7,8-Dioxy-2-Methyl-1,4-Benzpyron. Sm. 120° (B. 36, 2192 C. 1903 [2] 384).
	-102 O. 1000 [2] 10%).

C 38.5 - H 2.7 - O 58.7 - M. G. 436.C14H12O16 1) Hexahydrobenzol-1,1,2,2,4,4,5,5-Oktocarbonsäure. 220° u. Zers. Ag₈ (Soc. 83, 783 C. 1903 [2] 201, 439). $C_{14}H_{12}N_2$ *6) 2-[4-Methylphenyl]indazol (C. r. 138, 1276 C. 1904 [2] 120). *19) 3,8-Dimethyldiphenazon. Sm. 188°. HNO₃ (B. 37, 26 C. 1904 [1] 523). *20) Nitril d. α-Phenylamido-α-Phenylessigsäure. Sm. 84—85° (D.R.P. 142559 C. 1903 [2] 81; B. 37, 4079 C. 1904 [2] 1722; B. 37, 4084 C. 1904 [2] 1723) 29) $\alpha\beta$ -Di[4-Amidophenyl]äthin. Sm. 235°. 2HCl, H₂SO₄ (A. 325, 72) C. 1903 [1] 463). 30) 9 - Hydrazidophenanthren. Sm. 220-221° u. Zers. (B. 36, 2515) C. 1903 [2] 506). 31) 2-Methyl-5-Phenylbenzimidazol. Sm. 116° (B. 37, 882 C. 1904 [1] 1143). 12) 5-Amido-1,4-Diphenyl-1,2,3-Triazol. Sm. 169°. HCl (B. 35, 4058) $C_{14}H_{12}N_4$ C. 1903 [1] 171).
13) 3-Amido-1,5-Diphenyl-1,2,4-Triazol. Sm. 154,5° (Am. 29, 76) C. 1903 [1] 523). C 63.6 - H 4.5 - N 31.8 - M. G. 264.C14H12N6 1) 3,6-Di[3-Amidophenyl]-1,2,4,5-Tetrazin. Sm. 266-267°. 2HNO₈

 + 3 H₂O
 (B. 35, 3937 C. 1903 [1] 38).

 26) 1,3 - Dimethylcarbazol. Sm. 95%. Pikrat (A. 332, 91 C. 1904 [1] $C_{14}H_{13}N$ 19) 5-Amido-2-Methyl-l-Phenylbenzimidazol. Sm. 145-146° (J. pr. [2] $C_{14}H_{13}N_3$ **69**, **42** *C*. **1904** [1] 521). 20) 7-Amido-2-Methyl-5-Phenylbenzimidazol. Sm. 94° (B. 37, 883) C. 1904 [1] 1143). 21) 4,6-Dimethyl-2-Phenyl-2,1,5-Benztriazol $+ H_2O$. Sm. 150° (154°) wasserfrei) (B. 36, 521 C. 1903 [1] 649). 3) P-Joddi 3-Methylphenyl jodonium jodid. Sm. 105° (A. 327, 283 $C_{14}H_{18}J_{8}$ C. 1903 [2] 351). *2) α-Oxy-αβ-Diphenyläthan. Sm. 66—67° (B. 37, 456 C. 1904 [1] 949). $C_{14}H_{14}O$ 2) α -Oxy- α -Diphenyläthan. Sm. 57—58° (B. 36, 4012 C. 1904 [1] 175). 28) 2-Oxy- α α -Diphenyläthan. Sd. 177—178° (B. 36, 4009 C. 1904 [1] 175). 28) 2-Oxy- α β -Diphenyläthan. Sm. 83,5° (B. 36, 3982 C. 1904 [1] 171). 29) 4-Oxy- α β -Diphenyläthan. Sm. 100—101° (B. 36, 4009 C. 1904 [1] 175). 30) Phenol (aus 2-Phenyl-1,2-Dihydrobenzfuran). Sm. 63° (B. 36, 3985 C. 1904 [1] 171). 31) Aethyläther d. 3-Oxybiphenyl. Sm. 34°; Sd. 305° (310°) (B. 36, 4075 C. 1904 [1] 267; B. 36, 4085 C. 1904 [1] 268).
32) Phenyläther d. β-Oxyäthylbenzol. Sd. 166°₁₄ (C. r. 138, 1049) C. 1904 [1] 1493). *1) i-Hydrobenzoïn. Sm. 136° (134°) (B. 36, 1576 C. 1903 [1] 1397; B. 37, 1677 C. 1904 [1] 1522). $C_{14}H_{14}O_{2}$ *4) $\alpha\alpha$ -Di-[4-Oxyphenyl]äthan. Sm. 122,9° (126°). + C₆H₆O (A. 325, 29 C. 1903 [1] 460; C. 1904 [1] 1650). *8) 4,4'-Dioxy-3,3'-Dimethylbiphenyl. Sm. 155° (Am. 31, 127 C. 1904) [1] 809). *11) Dimethyläther d. 2,2'-Dioxybiphenyl. Sm. 1540 (A. 332, 62 C. 1904 [2] 41). *14) Dimethyläther d. 4,4'-Dioxybiphenyl. Sm. 172° (Am. 31, 127 C. 1904 [1] 809; A. 332, 67 C. 1904 [2] 42).
*18) 6-Oxy-4-Keto-2-[β-Phenyläthenyl]-1,2,3,4-Tetrahydrobenzol (B. 36, 239) C. 1903 [2] 438). 31) Aethyläther d. Methyl-4-Oxy-1-Naphtylketon. Sm. 78-79°; Sd. 320° u. ger. Zers. (B. 23, 1209; 28, 1947). — III, 174; *III, 141. 32) Aethylester d. Benznorcaradiëncarbonsäure. Sd. 163-1640,1 (B. 36, 3504 C. 1903 [2] 1273). 15) 4'-Methyläther d. 2,5,4'-Trioxydiphenylmethan. Sm. 126°; Sd. C14H14O8 271°₁₆ (B. **37**, 3487 C. **1904** [2] 1301). 16) 5-Acetyl-4, 6-Diketo-2-Phenylhexahydrobenzol. Sm. 104°. Cu (B. 37, 3382 C. 1904 [2] 1219).

$\mathbf{C}_{14}\mathbf{H}_{14}\mathbf{O}_{3}$	17) α-Oxyisopropyl-I-Oxy-P-Naphtylketon. Sm.127—128° (D.R.P. 80986). — *III, 143.
	18) α-Οχγίsopropyl-2-Οχγ-?-Naphtylketon. Sm. 122-123° (D. R. P. 80986). — *III, 143.
	19) 2-Oxynaphtalinpropyläther-1-Carbonsäure. Sm. 79°; Zers. bei 145° (C. r. 136, 618 C. 1903 [1] 881; Bl. [3] 31, 33 C. 1904 [1] 519).
	20) Acetat d. 6-Oxy-4-Keto-2-Phenyl-1,2,3,4-Tetrahydrobenzol. Sd.
	200° ₁₄ (B. 37, 3382 C. 1904 [2] 1219). 21) Acetat d. 7-Oxy-4-Methylen-2, 3-Dimethyl-1, 4-Benzpyran (B. 37, 1792 C. 1904 [1] 1612).
$C_{14}H_{14}O_{5}$	9) Trimethyläther d. Purpurogallin. Sm. 174-177° (Soc. 83, 196 C. 1903 [1] 401, 639).
	10) Lakton d. α - Oxy - α - Phenylpropan - β - Ketocarbonsäure - β - Carbonsäure athylester. Fl. (B. 31, 196). — *II, 1172.
	 Aethylester d. γ-Keto-α-[3,4-Dioxyphenyl]-α-Buten-3,4-Methylen- äther-β-Carbonsäure. Sm. 83° (B. 37, 1703 C. 1904 [1] 1497).
$C_{14}H_{14}O_8$	10) Tetraacetat d. 1,2,3,4-Tetraoxybenzol. Sm. 136° (B. 37, 120 C. 1904 [1] 586).
$C_{14}H_{14}N_{2}$	*32) 2, 2'-Dimethylazobenzol. Sm. 75° (C. 1904 [2] 1383). *37) 4, 4'-Dimethylazobenzol. Sm. 144° (C. 1904 [2] 1383).
	49) 4-[4-Amidobenzyliden]amido-1-Methylbenzol (D.R.P. 106719). — *III, 23.
	50) α -Benzyliden- β -[2-Methylphenyl]hydrazin. Sm. 100—102° (C . 1903 [2] 1432).
	51) μ -Benzyliden- β -[4-Methylphenyl]hydrazin. Sm. 114° (C. 1903 [2] 1432).
	52) 2-Methyl-1-Aethyl-β-Naptimidazol. HCl, (2HCl, PtCl ₄), (HCl, AuCl ₃), Chromat, Pikrat (Soc. 83, 1197 C. 1903 [2] 1445).
	53) 2-Methyl-N-Aethyl-α-oder-β-Naphtimidazol. Sm.84°. (2 HCl, HgCl ₂), (2 HCl, PtCl ₄ + 4 H ₂ O) (Soc. 83, 1193 C. 1903 [2] 1444).
$\mathbf{C_{14}H_{14}N_{4}}$	*6) Di[2-Amidobenzyliden]hydrazin. Sm. 248° (M. 25, 374 C. 1904
	[2] 322). *9) α-Phenylazo-α-Phenylhydrazonäthan (Methylformazyl). Sm. 123 bis
$\mathbf{C_{14}H_{14}N_6}$	123,5° (B. 36, 87 C. 1903 [1] 452). 3) 3,6-Di[3-Amidophenyl]-1, 2-Dihydro-1, 2, 4, 5-Tetrazin. Sm. 179 bis
$\mathbf{C_{14}H_{14}Cl_{2}}$	190° (B. 35, 3936 C. 1903 [1] 38). 1) Dichlorhexahydroanthracen. Sm. 159° (C. r. 139, 606 C. 1904 [2]
$\mathbf{C_{14}H_{14}Br_{2}}$	1574). 2) Dibromhexahydroanthracen. Sm. 162° (C. r. 139, 606 C. 1904 [2]
$\mathbf{C_{14}H_{14}J_{2}}$	1574). 3) 4-Aethyldiphenyljodoniumjodid. Sm. 160° (A. 327, 292 C. 1903
	[2] 352). 4) Di[3-Methylphenyl]jodoniumjodid. Sm. 155° (A. 327, 274 C. 1903
	[2] 350). 5) 2,3'-Dimethyldiphenyljodoniumjodid. Sm. 150° (4. 327, 279 C. 1903
	[2] 351). 6) 3,4'-Dimethyldiphenyljodoniumjodid. Sm. 143° (A. 327, 281 C. 1903
$C_{14}H_{14}S$	[2] 351). *1) Dibenzylsulfid (B. 36, 538 C. 1903 [1] 706).
$C_{14}H_{14}S_2$	*5) Dibenzyldisulfid (B. 36, 539 C. 1903 [1] 707)
$\mathbf{C}_{14}\mathbf{H}_{14}\mathbf{S}_{8}$	4) Dimethyläther d. Di[4-Merkaptophenyl]sulfid. Sm. 89° (R. 22, 362 C. 1904 [1] 23).
$\mathrm{C}_{14}\mathrm{H}_{15}\mathrm{N}$	 α-Phenylamidoäthylbenzol. Sd. 183°₂₀. HCl, H₂SO₄ (B. 37, 2691 σ. 1904 2 519).
C ₁₄ H ₁₅ N ₈	*17) 4'-Amido-2, 3'-Dimethylazobenzol (<i>J. pr.</i> [2] 69, 321 <i>C.</i> 1904 [2] 34). 38) α -Phenyl- β -[2-Methylamidobenzyliden] hydrazin. Sm. 193 1940
	(B. 36, 4187 C. 1904 [1] 279). 39) β -Phenylhydrazon- β -Amido- α -Phenyläthan Sm 700 HCl (B. 38)
	40) 2-Methylamido-1-Phenylhydrazonmethylbenzol Sm. 1245—12550
	(B. 37, 964 C. 1904 [1] 1079). 41) 4-Benzylidenhydrazido-2, 6-Dimethylpyridin Sm 2202240 p. 7000
	HCl, HNO ₃ (B. 36, 1117 C. 1903 [1] 1185).

C14H16O *3) 3-Keto-4-Benzyliden-1-Methylhexahydrobenzol. Sm. 59°; Sd. 190 bis 200°₁₃ (C. r. 136, 1225 C. 1903 [2] 116). $C_{14}H_{16}O_{2}$ 12) Aethylester d. 1- $[\beta$ -Phenyläthenyl]-R-Trimethylen-2-Carbonsäure. Sm. 42—43° (B. 37, 2104 C. 1904 [2] 104). 15) Diäthyläther d. 5,7 - Dioxy-4-Methyl-2,1-Benzpyron. Sm. 131° (D. R. P. 73700). — *II, 1126. $C_{14}H_{16}O_{4}$ 16) α -Acetoxyl- α -Phenyl- α -Buten- β -Methylcarbonsäure (C.1904[1]1258). 17) Dimethylester d. α -Phenyl- β -Buten- $\delta \delta$ -Dicarbonsäure. Sd. 1870, (B. 37, 3122 C. 1904 [2] 1217). C14H18O5 21) Mekoninmethyläthylketon. Sm. 128-132° (M. 25, 1052 C. 1904 [2] 19) Diacetat d. 3, 6 - Dioxy-2,5-Diathyl-1,4-Benzochinon. Sm. 130° C14H16O8 (B. 37, 2386 C. 1904 [2] 307). *16) 4-Amido - 3-[4-Methylphenyl]amido-1-Methylbenzol. Sm. 1070 $C_{14}H_{16}N_2$ (B. 36, 341 C. 1903 [1] 633). *24) 4,4'-Diamido-3,3'-Dimethylbiphenyl. Oxalat (B. 37, 1401 C. 1904 [1] 1443; M. 25, 383 C. 1904 [2] 320). *27) s-Di[2-Methylphenyl]hydrazin (B. 36, 340 C. 1903 [1] 633). *29) s-Di[4-Methylphenyl]hydrazin (B. 36, 340 C. 1903 [1] 633). *40) 4-Amido-2-Benzylamido-1-Methylbenzol (Benzyl-5-Amido-2-Methylphenylamin). Sm. 80° (D.R.P. 141297 C. 1903 [1] 1163). 41) 4,4'-Di[Methylamido]biphenyl. Sm. 74—76°. 2HCl (B. 37, 3773 C. 1904 [2] 1548). 20) $\alpha\beta$ -Di[2,4-Diamidophenyl] äthen. Sm. 191° (B. 37, 3600 C. 1904 $C_{14}H_{16}N_4$ [2] 1500). 21) α -Phenylhydrazon - α -Phenylhydrazidoäthan. HCl (B. 36, 2483 C. 1903 [2] 490). 22) P-Diamido-3, P-Dimethylazobenzol (J. pr. [2] 68, 307 C. 1903 [2] 1143). 1) Dichloroktohydroanthracen. Sm. 192° (C. r. 139, 606 C. 1904 [2] $C_{14}H_{16}Cl_2$ 1574). 1) Dibromoktohydroanthracen. Sm. 194° (C. r. 139, 605 C. 1904 [2] $\mathbf{C_{14}H_{16}Br_{2}}$ 1574). *9) 4-Amido-4'-Dimethylamidodiphenylamin. Sm. 116°. 2HCl, H₂SO₄ C14H17N9 (J. pr. [2] 69, 223 C. 1904 [1] 1268). 10) Di[β -2-Pyridyläthyl]amin. Fl. 3[2 HCl, PtCl₄] + 2H₂O, 3 Pikrat (B. 37, 173 C. 1904 [1] 673). 1) Chloroktohydroanthracen (C. r. 139, 606 C. 1904 [2] 1574).
1) Bromoktohydroanthracen. Fl. (C. r. 139, 606 C. 1904 [2] 1574). $\mathbf{C}_{14}\mathbf{H}_{17}\mathbf{Cl}$ C₁₄H₁₇Br C₁₄H₁₈O 6) γ -Keto- α -[4-Isopropylphenyl]- $\dot{\alpha}$ -Penten. Sm. 32-33°; Sd. 170°₁₇ (A. 330, 257 C. 1904 [1] 946). 7) γ-Keto-α-[4-Isopropylphenyl]-β-Methyl-α-Buten. Sd. 171,5 °₁₇ (A. 330, 261 C. 1904 [1] 947).
 13) Aethyläther d. α-Οκγ-γ-Κeto-α-Phenyl-α-Hexen. Sd. 155—158 °₁₀ $C_{14}H_{18}O_{2}$ (C. r. 139, 206 C. 1904 [2] 649). 14) Benzoat d. α-Oxy-α-Hepten. Sd. 195°₅₀ (Soc. 83, 153 C. 1903 [1] 15) Benzoat d. 2-Oxy-l-Methylhexahydrobenzol. Fl. (C. 1904 [1] 1346). 19) Aethylester d. β -Benzoylbutan- α -Carbonsäure. Sd. 175% (C. 1904) $C_{14}H_{18}O_{8}$ [1] 1258). *18) Diäthyläther d. ay-Diketo-a-[2,4-Dioxyphenyl]butan. Cu (B. 37, $C_{14}H_{18}O_4$ 355 C. 1904 [1] 670). 28) Diisopropylester d. Benzol-1, 2-Dicarbonsäure (G. 28 [2] 503). — *II, 1047. 29) Isobutylester d. 1- α -Benzoxylpropionsäure. Sd. 163-164 $^{o}_{11}$ (C. 1903 2] 1419). 13) 6-Ketododekahydrobiphenylen-3,4'-Dicarbonsäure. Sm. 170° (Soc. $C_{14}H_{18}O_{5}$ 85, 429 C. 1904 [1] 1082, 1439). 14) β -Ketopropylester d. 3,5-Dioxybenzoldiäthyläther-I-Carbonsäure. Sm. 65° (D.R.P. 73700). — *II, 1030. 18) 2,5-Diacetat d. 2,3,5,6-Tetraoxy-1,4-Diathylbenzol. Sm. 2050 C14H18O6 (B. 37, 2387 C. 1904 [2] 307). 5) Diäthylester d. 6-Oxy-1,4-Dihydrobenzol-1,3-Dicarbonsäure-4-

Methylcarbonsäure. Sm. 112—113° (B. 37, 2118 C. 1904 [2] 438).

 $C_{14}H_{18}O_7$

1 1 11.	•
$\mathbf{C_{14}H_{18}O_{7}}$	6) Diäthylester d. Glutakonylglutakonsäure. Sm. 98-99° (C. r. 136, 693 C. 1903 [1] 960).
$egin{array}{c} \mathbf{C_{14}H_{18}N_2} \ \mathbf{C_{14}H_{18}N_4} \end{array}$	*7) 5-Amyl-3-Phenylpyrazol. Sm. 76° (C. r. 136, 1264 C. 1903 [2] 122). 9) 2,4-Diamido-4'-Dimethylamidodiphenylamin? Sm. 70—75° (J. pr. [2] 69, 230 C. 1904 [1] 1269).
$\mathbf{C_{14}H_{20}O}$	10) α -Oxy- α -Phenyl- α -Hexahydrophenyläthan. Sd. 168° (C. r. 139, 345 C. 1904 [2] 705).
	11) Methyläther d. α-[2-Oxyphenyl]-α-Hepten. Sd. 179° ₁₆ (B. 37, 4002 C. 1904 [2] 1641).
	12) γ -Keto- α^{-} [4-Isopropylphenyl]pentan. Sd. 160—164 $^{\circ}$ ₁₇ (A. 330, 259 G. 1904. [1] 947).
	13) γ -Keto- α -[4-Isopropylphenyl]- β -Methylbutan. Sd. 155,5% (A. 330, 263 C. 1904 [1] 947).
	14) Isobutyl-2, 4, 6-Trimethylphenylketon. Sd. 151° ₂₀ (B. 37, 929 C. 1904 [1] 1209).
	15) Methyl-2, 4, 5-Triäthylphenylketon. Sd. 146° ₁₃ (B. 36, 1635 C. 1903 [2] 26).
$\mathbf{C_{14}H_{20}O_{2}}$	16) α-Oxyisopropyl-2-Methyl-5-Isopropylphenylketon. Sd. 157° ₁₅ (C. 1899 [1] 959) — *III, 126.
	17) 2,5-Dipseudobutyl-1,4-Benzochinon. Sm. 152,5° (Bl. [3] 31, 970 C. 1904 [2] 1113).
	18) Aethylester d. 3-tert. Butyl-1-Methylbenzol-5-Carbonsäure. Sd. 268—270 ° ₇₄₃ (C. 1904 [1] 1498).
$\mathbf{C_{14}H_{20}O_{8}}$	32) Lakton d. $\dot{\beta}$ -Oxypropylcamphocarbonsäure. Sm. 141° (<i>C. r.</i> 136, 792 <i>C.</i> 1903 [1] 1086).
	33) Allylester d. Camphocarbonsäure. Sd. 160—170° ₂₀ (C. r. 136, 240 C. 1903 [1] 584).
$C_{14}H_{20}O_4$	7) Methylester d. Acetylcamphocarbonsäure. Sd. 142° ₁₂ (B. 35, 4032 C. 1903 [1] 81).
-	8) Aethylester d. α - Oxy- α -[4 - Methoxylphenyl]- β - Methylpropan- β -Carbonsäure. Sm. 71° (C . 1903 [2] 566).
$\mathbf{C}_{14}\mathbf{H}_{20}\mathbf{O}_{6}$	3) 4 - Keto - 1,3 - Diacetyl - 1,3,5 - Tri[Oxymethyl] - 6 - Methyl - 1,2,3,4 - Tetrahydrobenzol $+$ xH ₂ O. Sm. 110° (122° wasserfrei) (B. 36, 2176 C. 1903 [2] 371).
$C_{14}H_{20}O_8$	*2) Tetraäthylester d. Aethentetracarbonsäure Sm. 56—58"; Sd. 227 bis 233° ₁₅ (J. pr. [2] 68, 159 C. 1903 [2] 759; Soc. 85, 613 C. 1904 [1] 1553).
$C_{14}H_{20}O_{9} \\ C_{14}H_{20}O_{10}$	6) Säure (aus Cholesterin). Ca ₂ $+$ 2H ₂ O (<i>M.</i> 24, 190 <i>C.</i> 1903 [2] 21). 2) Pentamethylester d. Butan- $\alpha \alpha \beta \gamma$ δ -Pentacarbonsäure. Sm. 95–96°
$\mathbf{C_{14}H_{20}Br_{2}}$	(B. 36, 3293 C. 1903 [2] 1167). *2) 3,6-Dibrom-1,2,4,5-Tetraäthylbenzol. Sm. 113° (B. 36, 1635 C. 1903
14 40 1	[2] 26). 3) $\gamma \delta$ -Dibrom- δ -[2,4,6-Trimethylphenyl]- β -Methylbutan. Fl. (B. 37,
14	930 C. 1904 [1] 1209). 4) 4,6 - Dibrom - 2 - Isoamyl-1, 3,5-Trimethylbenzol. Sm. 44° (B. 37.
$\mathbf{C}_{14}\mathbf{H}_{21}\mathbf{Cl}$	1720 C. 1904 [1] 1489). 3) δ -Chlor- δ -[2, 4, 6-Trimethylphenyl]- β -Methylbutan. Fl. (B. 37, 930)
$C_{14}H_{22}O$	C. 1904 [1] 1209). *17) α-Methyljonon. Sd. 137—142% (D.R.P. 150827 C. 1904 [1] 1379).
17 24	*18) β-Methyljonon. Sd. 145—151° ₁₅ (D.R.P. 150827 C. 1904 [1] 1379). *19) Methylpseudojonon (D.R.P. 150771 C. 1904 [1] 1307). 20) isom. α-Methyljonon. Sd. 135—140° ₁₈ (D.R.P. 150827 C. 1904 [1]
	21) isom. β-Methyljonon. Sd. 135—140° (D.R.P. 150827 C. 1904 [1]
	22) δ -Oxy- δ -[2,4,6-Trimethylphenyl]- θ -Methylbutan. Sd. 164%. (B. 37)
	930 C. 1904 [1] 1209). 23) 5-[α-Oxyäthyl]-1,2,4-Triäthylbenzol. Sm. 45°; Sd. 149° ₁₃ (B. 36, 1635 C. 1903 [2] 26).
	24) Methyläther d. α -[2-Oxyphenyl]heptan. Sd. 153-155" ₂₀ (B. 37, 4002 C. 1904 [2] 1642).
	25) Alstonin. Sm. 191—192° (B. 37, 4113 C. 1904 [2] 1656). 26) Isoalstonin. Sm. 163° (B. 37, 4113 C. 1904 [2] 1656).

- 809 -C14H29O2 16) $\alpha \gamma$ -Dioxy- α -[4-Isopropylphenyl]- β -Methylpropan. Sm. 58°; Sd. 210° α $(\dot{M}. 24, 252 \ C. 1903 \ (21 242).$ 16) Dipropyläther d. αα-Dioxy-α-Phenyläthan (B. 31, 1012). — *III. 91. 17) Butyrylcampher. Sd. 146°₁₂ (B. 36, 2639 C. 1903 [2] 627; B. 37. 762 C. 1904 [1] 1085). 18) Cyklamiretin. Sm. 215° (B. 36, 1765 C. 1903 [2] 119). 19) Aethylester d. Cyklocitrylidenessigsäure. Sd. 141 og (D.R.P. 153575 C. 1904 [2] 678). 20) Bornylester d. Crotonsäure. Sd. 1730, (C. r. 136, 238 C. 1903 [1] $C_{14}H_{22}O_{3}$ 22) 2,5-Dimethyläther-3-Propyläther d. 2,3,5-Trioxy-1-Propylbenzol. Sd. 156—157°₁₂ (B. 36, 1720 C. 1903 [2] 114). 23) Methylester d. a-Aethylcamphocarbonsäure. Sm. 60° (C. r. 137, 1067 C. 1904 [1] 283). 24) Methylester d. β -Aethyleamphocarbonsäure. Sd. 162°_{10} (C. r. 137, 1068 C. 1904 [1] 283). 25) Propylester d. Camphocarbonsäure. Sd. 170%, (C. r. 136, 240 C. 1903) [1] 584). 26) Verbindung (aus Guttapercha). Sm. 120—130° (C. 1903 [1] 84). C14H22O4 *3) Digitogensäure (B. 37, 1216 C. 1904 [1] 1363). 11) β-Oxypropyleamphocarbonsäure (C. r. 136, 792 C. 1903 [1] 1086).
 12) Diacetat d. 5,7-Dioxy-1-Methylbicyklo-[1,3,3]-Nonan. Fl. (B. 37, 1674 C. 1904 [1] 1607). $C_{14}H_{22}O_5$ 5) 2,4,5-Trimethyläther-1,1-Diäthyläther d. 2,4,5-Trioxy-1-Dioxy-methylbenzol. Sm. 101,5° (Ar. 242, 103 C. 1904 [1] 1008). *1) Diäthylester d. 3,5-Dioxy-1,3-Dimethyl-1,2,3,4-Tetrahydrobenzol-2,6-Dicarbonsäure. Sm. 60-63°. Na + C₂H₆O (B. 32, 89; A. 332, C14HoOG 26 C. 1904 [1] 1566). *4) Diäthylester d. 5-Keto-1-Oxy-1, 3-Dimethylhexahydrobenzol-2, 4-Dicarbonsäure. Sm. 80° (A. 332, 25 C. 1904 [1] 1566). 1) 1, 6,?-Tribrom-3,3'-Dimethyldodekahydrobiphenyl (C. 1904 [1] C14H29Br 1346). *11) 1-Menthylester d. Crotonsäure. Sd. 140-140.5% (A. 327, 172 C14H24O2 C. 1903 [1] 1396). *13) Isobutyrat d. Isoborneol. Sd. 120°₁₄ (C. r. 136, 239 C. 1903 [1] 584). 14) Methylpseudojononhydrat. Sd. 186—192°_{12,5} (D.R.P. 150771 C. 1904 1] 1307). 15) isom. Methylpseudojononhydrat. Sd. 185—195° (D.R.P. 150771 C. 1904 [1] 1307). 16) Aethylester d. α -Undekin- α -Carbonsäure. Sd. 170—174 $^{\circ}_{25}$ (C. r. 136, 554 C. 1903 [1] 825). 17) Isoamylester d. α-Oktin-α-Carbonsäure. Sd. 168-172%, (C. r. 136, 17) Isosamylesser d. π-Oktin-ti-Cal Sonsacte. Sci. 165-172 27 (C.7. 265, 554 C. 1903 [1] 825).
 18) I-Menthylester d. R-Trimethylencarbonsäure. Sci. 135-135,5°₁₄ (A. 327, 182 C. 1903 [1] 1396).
 19) Acetat d. 4-[β-Oxyisobutyl]-1,1,5-Trimethyl-2, 3-Dihydro-R-Penten. Sci. 118-122°₁₉ (Bl. [3] 31, 462 C. 1904 [1] 1516).
 20) Buyrat d. d-Borneol. Sci. 120-121°₁₀₋₁₁ (D.R.P. 80711). — *III, 917 337.21) Butyrat d. Campholenalkohol. Sd. 252-254° (C. r. 138, 280 C. 1904 [1] 725). 22) Butyrat d. Isoborneol. Sd. 123°₁₁ (C. r. 136, 239 C. 1903 [1] 584). 23) Crotonat d. d-Citronellol. Sd. 138—140°₃₅ (C. r. 126, 1727). — *III,
- *4) Menthylester d. Acetessigsäure (Soc. 81, 1501 C. 1903 [1] 138). $C_{14}H_{24}O_{8}$ *6) Menthylester d. β-Oxycrotonsäure. Cu (Soc. 81, 1503 C. 1903 1] 138).
- $C_{14}H_{24}O_4$ *6) Monomenthylester d. Bernsteinsäure. Sm. 59° (B. 37, 1379 C. 1904 [1] 1441).
 - 12) Diäthylester d. ζ-Methyl-α-Hepten-δη-Dicarbonsäure. Sd. 155°₁₇ (C. r. 136, 1614 C. 1903 [2] 440).
 7) Diäthylester d. Oxycamphersäure. Fl. (Am. 28, 481 C. 1903
- C14H24O5 [1] 329).

22) Diäthylester d. Dimethylmalonyloxypivalinsäure. Sd. 156—157% (Bl. [3] 31, 163 C. 1904 [1] 869). $C_{14}H_{24}O_6$ 3) $4-[\beta-Oxy-\beta-Aethylbutyl]-1,1,5-Trimethyl-2,3-Dihydro-R-Penten$ $C_{14}H_{26}O$ (Diäthylcampholenol). Sd. 144—148° 28 (Bl. [3] 31, 463 C. 1904 [1] 1516).
4) Isobutylmenthon. Sd. 124—128° 10 (C. r. 138, 1140 C. 1904 [2] 106).
*2) Suberonpinakon. Sm. 75—76° (C. 1903 [1] 568; A. 327, 66 C. 1903 C14H26O2 [1] 1124). 7) Aethylester d. β-Ketoundekan-α-Carbonsäure. Sd. 164—165%. Cu C14H26O8 (C. r. 136, 755 C. 1903 [1] 1019). 8) Aethylester d. β -Keto- δ -Methyldekan- γ -Carbonsäure. Sd. 147° (Bl. [3] 31, 597 C. 1904 [2] 26; Bl. [3] 31, 759 C. 1904 [2] 309). Propylester d. β-Oxy-α-Heptenpropyläther-α-Carbonsäure. Sd. 279 bis 280° (C. r. 138, 208 C. 1904 [1] 659; Bl. [3] 31, 513 C. 1904 [1] 1602). *4) Diäthylester d. Oktan-a &-Dicarbonsäure (M. 24, 621 C. 1903 [2] C14H26O4 1236). 26) α -Acetoxylundekan- α -Carbonsäure. Sm. 47° (Bl. [3] 29, 1126 C. 1904 [1] 261). 27) Diäthylester d. β -Methylheptan- $\gamma \zeta$ -Dicarbonsäure. (C. r. 136, 458 C. 1903 [1] 696; C. 1904 [2] 1045). Sd. 158% 28) Diacetat d. αz -Dioxydekan. Sm. 25,5%; Sd. 170,5% (M. 24, 630) C. 1903 [2] 1237). $C_{14}H_{26}Br_{2}$ 1) Dibromid d. Kohlenwasserstoff C₁₄H₂₆. Sm. 83° (M. 25, 126 C. 1904 1] 716). *1) $Di[3-Methylhexahydrophenyl]amin. Sd. 145<math>^{\circ}_{20}$ (C. r. 138, 1258) $C_{14}H_{97}N$ C. 1904 [2] 105). Sm. 34°; Sd. 152°₁₆ (Bl. [3] 29, 1209 U. 1904 $C_{14}H_{28}O$ 9) y-Ketotetradekan. 1 355). 10) Oxyd (aus Butyronpinakon). Sd. 243—244° (M. 25, 128 C. 1904 [1] 716). *4) Aethylester d. Laurinsäure. Sd. 79°, (B. 36, 4340 C. 1904 [1] 433). $C_{14}H_{28}O_{2}$ 4) Aethylester d. α-Oxyundekan-α-Carbonsäure. Sm. 43° (Bl. [3] 29, C14H28O8 1126 C. 1904 [1] 261). *1) α -Oxytetradekan. Sm. 38°; Sd. 160°₁₀ (C. r. 137, 61 C. 1903 [2] 551). 4) ζ -Aethyläther d. $\varepsilon\zeta$ -Dioxy- β -Methyl- ε -Isoamylhexan. Sd. 143—144°₂₅ (C. r. 138, 91 C. 1904 [1] 505; Bl. [3] 31, 304 C. 1904 [1] 1133). *1) α -Amidotetradekan. Sm. 37° (C. 1903 [1] 826; J. pr. [2] 67, 419 $C_{14}H_{80}O$ $C_{14}H_{30}O_{2}$ C14H81N C. 1903 [1] 1405). - 14 III -C. 1903 [1] 464). $C_{14}H_4O_2Cl_8$ *1) $\alpha\beta$ -Dichlor- $\alpha\beta$ -Di[3,3,5-Trichlor-4-Keto-3,4-Dihydrophenyl]äthan.

C₁₄H₄O₂Cl₆ *1) 3, 5, 3', 5'-Tetrachlortolanchloridchinon. Sm. 249 (A. 325, 85

Sm. 185° (A. 325, 91 C. 1903 [1] 405).

 $C_{14}H_4O_2Cl_{12}$ 1) Ketochlorid (aus $\alpha\beta$ -Di[4-Amidophenyl] athin). Sm. 191 (4. 325, 80 Anm. C. 1903 [1] 464).

C₁₄H₄O₂Cl₁₄ 1) Ketochlorid (aus pp-Diamidostilben). Sm. 150° u. Zers. (A. 325, 47 Anm. C. 1903 [1] 462). $C_{14}H_4O_4Br_4$ 4) P-Tetrabrom-1, 6-Dioxy-9, 10-Anthrachinon. Sm. 295 (B. 36, 2937,

2942 C. 1903 [2] 885).

1) 2,4,6,8-Tetrabrom-1,3,5,7-Tetraoxy-9,10-Anthrachinon (D.R.P. $C_{14}H_4O_6Br_4$

155633 C. 1904 [2] 1487).

1) Verbindung (aus 3,4,5,6-Tetrabrom-1,2-Benzochinon u. Essigsäure).

Zers. bei 220—230° (Am. 31, 111 C. 1904 [1] 803). $C_{14}H_4O_6Br_8$ $\mathbf{C_{14}H_4O_{14}N_4}$ C 37,2 — H 0,9 — O 49,5 — N 12,4 — M G 452.

1) 2,4,6,8-Tetranitro-1,3,5,7-Tetraoxy-9,10-Anthrachinon. Zers. hei 280-300° (D.R.P. 73605, 72552, 101486, 108420). — III, *313.

C₁₄H₅O₂Cl₁₁ 1) Ketochlorid (aus pp-Diamidostilben). Sm. 217° u. Zers. (A. 325, 47 Anm. C. 1903 [1] 462). $C_{14}H_5O_2Cl_{18}$

1) Ketochlorid (aus $\alpha\beta$ Di[4-Amidophenyl]äthin). Sm. 258° (A. 325, 79 Anm., 85 C. 1903 [1] 464).

isom. Ketochlorid (aus αβ-Di[4-Amidophenyl] äthin).
 (A. 325, 79 Anm., 85 C. 1903 [1] 464).

C₁₄H₅O₄Cl₈ 1) P-Trichlor-2, 6-Dioxy-9, 10-Anthrachinon (D.R.P. 152175 C. 1904

- $C_{14}H_6O_2Cl_4$ *1) 3,5,3',5'-Tetrachlorstilbenchinon (A. 325, 54 C. 1903 [1] 462). 2) $\alpha\beta$ -Di[3, 5-Dichlor-4-Oxyphenyl] äthin. Sm. 226° (A. 325. 77 C. 1903 [1] 463). *1) $\alpha\beta$ -Dichlor- $\alpha\beta$ -Di[3, 5-Dichlor-4-Oxyphenyl]äthen. (A. 325, 78 C. 1903 [1] 464). C₁₄H₆O₂Cl₅ $C_{14}H_8O_2Cl_8$ *2) $\alpha \alpha \beta \beta$ -Tetrachlor- $\alpha \beta$ -Di[3, 5-Dichlor-4-Oxyphenyl]äthan. u. Zers. + 2 Molec. Essigsäure (A. 325, 82 C. 1903 [1] 464). 1) Ketochlorid (aus 4,4'-Dioxystilben). Sm. 223-224° (A. 325, 51 Anm. $C_{14}H_6O_2Cl_{12}$ C. 1903 [1] 462). 6) 2,7-Dibrom-9,10-Phenanthrenchinon. Sm. 323° (B. 37, 3559 $C_{14}H_6O_2Br_2$ C. 1904 [2] 1400; B. 37, 3567 C. 1904 [2] 1402).
 2) 3, 5, 3', 5'-Tetrabromstilbenchinon (Tetrabrom C14HaO2Br4 (Tetrabromdibenzylidenchinon). Zers. oberh. 300°. NaOH, KOH (A. 325, 34 C. 1903 [1] 460). C14HaO4Cl2 4) P-Dichlor-2, 6-Dioxy-9, 10-Anthrachinon (D.R.P. 152175 C. 1904 [2] 168)5) P-Dichlor-2,7-Dioxy-9,10-Anthrachinon (D.R.P. 152175 C. 1904 [2] 168). 1) $\alpha\beta$ -Diketo- $\alpha\beta$ -Di[2, 5-Dichlor-4-Oxyphenyl]äthan. Sm. 275° (*J. pr.* [2] 59, 233). — *III, 224. 2) $\alpha\beta$ -Diketo- $\alpha\beta$ -Di[3, 5-Dichlor-4-Oxyphenyl]äthan. Sm. noch nicht C, H,O,Cl bei 300° (A. 325, 88 C. 1903 [1] 464). 7) isom. ?-Dibrom-1, 6-Dioxy-9, 10-Anthrachinon. Sm. 210-213° $C_{14}H_6O_4Br_2$ (B. 36, 2937 C. 1903 [2] 885). 8) P-Dibrom-2, 3-Dioxy-9, 10-Anthrachinon. Sm. 127-129° (B. 36, 2939) C. 1903 [2] 886) αβ-Diketo-αβ-Di[3,5-Dibrom-4-Oxyphenyl]äthan. Sm. noch nicht bei 270° (A. 325, 90 C. 1903 [1] 465).
 3,7-Dinitro-9,10-Phenanthrenchinon. Sm. 301—303° (B. 36, 3739 C. 1904 [1] 36; B. 37, 3085 C. 1904 [2] 1056).
 4,5-Dinitro-9,10-Phenanthrenchinon. Sm. 228° (B. 36, 3745 C. 1904 [2] 1056). $C_{14}H_6O_4Br_4$ $C_{14}H_6O_6N_2$ [1] 37). 8) isom. Dinitro-9, 10-Anthrachinon. Sm. bei 300° (D.R.P. 72685). — *III, 296. 1) P-Dibrom - 1, 3, 5, 7 - Tetraoxy - 9, 10 - Anthrachinon (D.R.P. 78642, $C_{14}H_6O_6Br_2$ 81962). - *III, 312. $C_{14}H_6O_8N_2$ 6) 1,4-Dinitro-2,3-Dioxy-9,10-Anthrachinon. Ca, Ba (B. 36, 2940 C. 1903 [2] 886). C 40.2 - H 1.4 - O 38.3 - N 20.1 - M. G. 418. $C_{14}H_6O_{10}N_6$ 1) 2,4,6,8-Tetranitro-1,5-Diamido-9,10-Anthrachinon (D.R.P. 148109 C. 1904 [1] 230). 1) Nitril d. 3,3'-Dichlorbiphenyl-4,4'-Dicarbonsaure. Sm. 152-153° C14H6N2Cl2 (Soc. 85, 9 C. 1904 [1] 376, 729). *1) 2-Chlor-9,10-Anthrachinon. Sm. 208—209 ° (B. 37, 62 C. 1904 [1] 520). *2) 2-Brom-9,10-Anthrachinon. Sm. 204—205 ° (B. 37, 61 C. 1904 [1] 520). C₁₄H₇O₂Cl C,4H,OBr *3) 4-Brom-9,10-Phenanthrenchinon. Sm. 126° (B. 37, 3554 C. 1904 [2] 1399). 4) 2-Brom-9,10-Phenanthrenchinon. Sm. 233—234° (B. 37, 3558) C. 1904 [2] 1400). 5) 3-Brom-9,10-Phenanthrenchinon. Sm. 268° (B. 37, 3571 C. 1904 [2] 1403). 2-Jod-9,10-Anthrachinon. Sm. 175-176° (B. 36, 60 C. 1904 [1] 520).
 3-Chlor-2-Oxy-9,10-Anthrachinon. Sm. 258-260° (D.R.P. 148110 $C_{14}H_7O_9J$ C14H7O8Cl C. 1904 [1] 329). 2) P-Chlor-2-Oxy-9,10-Anthrachinon (D.R.P. 152175 C. 1904 [2] 168). 1) 3-Brom-2-Oxy-9,10-Anthrachinon. Sm. 249-252° (D.R.P. 148110 C14H7O3Br C. 1904 [1] 329). *2) 2 - Nitro - 9,10 - Phenanthrenchinon. Sm. 257-258° (B. 36, 3731 $C_{14}H_7O_4N$ C. 1904 [1] 35; B. 37, 3085 C. 1904 [2] 1056).
 *7) P-Nitro-9,10-Phenanthrenchinon. Sm. 161-162° (B. 36, 3734)
 - C. 1904 [1] 36).
 *8) 3-Nitro-9,10-Phenanthrenchinon. Sm. 276° (B. 37, 3084 C. 1904 [2] 1056).
 - 9) 2-Nitro-9,10-Anthrachinon. Sm. 184—185° (B. 37, 63 C. 1904 [1] 520).

10) 4 - Nitro - 9,10 - Phenanthrenchinon. Sm. 179-180 (B. 36, 3734) $C_{14}H_7O_4N$ C. 1904 [1] 36). C 59,8 — H 2,5 — O 22,8 — N 14,9 — M. G. 281. $C_{14}H_7O_4N_3$ 1) 3,4-Methylenäther d. 3,5-Dicyan-6-Oxy-2-Keto-4-[3,4-Dioxyphenyl -2,5-Dihydropyridin (Piperonyldicyanglutakonimid). Sm. oberh. 300°. NH₄, Ca + 5H₂O, Ba + 4H₂O, Co, Cu, Ag (C. 1903 [2] 714). 3) P-Chlor-1,2-Dioxy-9,10-Anthrachinon (D.R.P. 151018 C. 1904 [1] C,4H,O,Cl 1382). 4) isom. P-Chlor-1, 2-Dioxy-9, 10-Anthrachinon. Sm. 265-267 (D. R. P. 77179). - *III, 302. 5) ?-Chlor-1, 7-Dioxy-9, 10-Anthrachinon (D.R.P. 153194 C. 1904 [2] 6) P-Chlor-2, 6-Dioxy-9, 10-Anthrachinon (D.R. P. 152175 C. 1904 [2] 4) ?-Brom-1,4-Dioxy-9,10-Anthrachinon (D.R.P. 151018 C. 1904 [1] C14H7O4Br 1382). 5) isom. ?-Brom-1,2-Dioxy-9,10-Anthrachinon. Sm. 245° (D.R.P. 81965). - *III, 302. 2) 2,7-Dinitro-9-Imido-10-Ketophenanthren. Sm. 358-360° u. Zers. $C_{14}H_7O_5N_8$ (B. 36, 3741 C. 1904 [1] 37). 2) ?-Chlor-1, 2, 4-Trioxy-9, 10-Anthrachinon (D.R.P. 151018 C. 1904 $C_{14}H_7O_5C1$ [1] 1382). 3) P-Brom-1,2,4-Trioxy-9,10-Anthrachinon (D.R.P. 151018 C. 1904 $C_{14}H_7O_5Br$ [1] 1382). 3) 4-Nitro-1,3-Dioxy-9,10-Anthrachinon (D.R.P. 153770 C. 1904 [2] $C_{14}H_7O_6N$ 4) 5-Nitro-1, 4-Dioxy-9, 10-Anthrachinon. Sm. 244-245° (D.R.P. 90041 - *III, 305. 5) 1-Nitro-2, 3-Dioxy-9, 10-Anthrachinon (B. 36, 2939 C. 1903 [2] 886). *4) 3-Nitrophenylimid d. 3-Nitrobenzol-1,2-Dicarbonsäure. Sm. 218 $C_{14}H_7O_6N_8$ bis 219° (C. 1903 [2] 431). *6) 4-Nitrophenylimid d. 3-Nitrobenzol-1, 2-Dicarbonsäure. Sm. 248 bis 249° u. Zers. (C. 1903 [2] 431). 8) Monooxim d. 2,7-Dinitro-9,10-Phenanthrenchinon. Sm. 246 bis 248° u. Zers. (B. 36, 3740 C. 1904 [1] 37). 9) Monooxim d. 4,5-Dinitro-9,10-Phenanthrenchinon. Sm. 190 his 191° u. Zers. (B. 36, 3748 C. 1904 [1] 38). 1) 4-Brom-1,2,3,5,6,7-Hexaoxy-9,10-Anthrachinon (D.R.P. 114263 C. 1900 [2] 931). — *III, 315. $C_{14}H_7O_8Br$ 3) Amid einer Säure (aus 2-Nitrobenzylalkohol). Sm. 2940 (C. r. 136, $C_{14}H_8O_2N_2$ 372 C. 1903 [1] 636). *2) $\alpha\beta$ -Di[3,5-Dichlor-4-Oxyphenyl]äthen. Sm. 237 – 238° (A. 325, 46 $C_{14}H_8O_2Cl_4$ C. 1903 [1] 462). *1) $\alpha\beta$ -Dichlor- $\alpha\beta$ -Di[3,5-Dichlor-4-Cx;p]: \ddot{a} -her. Sm. 240° u. Zers. C₁₄H₈O₂Cl₆ - 2 Molec. Essigsaure (A. 325, 51 (. 1903) 4) 2-Dibromacetyl-β-Naphtofuran. Sm. 177° (B. 36, 2867 C. 1903 [2] $C_{14}H_8O_2Br_2$ 5) 9,10-Phenanthrenchinondibromid (B. 37, 3556 (f. 1904 [2] 1400).
 2) αβ-Di[3,5-Dibrom-4-Oxyphenyl]äthen. Sm. 269° (A. 325, 30 C. 1903 C14H8O2Br4 [1] 460). $C_{14}H_8O_2Br_6$ 1) $\alpha\beta$ -Dibrom - $\alpha\beta$ -Di[3, 5-Dibrom-4-Oxyphenyl] athen. Zers. bei 265° (A. 325, 32 C. 1903 [1] 460). C14H8O8N2 C 66,7 - H 3,2 - O 19,0 - N 11,1 - M. G. 252. 1) 1-Diazo-9,10-Anthrachinon. Sulfat (B. 37, 4185 C. 1904 [2] 1742).
 2) 2-Diazo-9,10-Anthrachinon. Nitrat (B. 37, 64 C. 1904 [1] 520). C14H8O8Cl Dichlordisalicylaldehyd. Sm. 172° (Am. 14, 295; B. 37, 4023).
 α-Methyläther d. 2,3,5,2',3',5'-Hexabrom-α,4,4'-Trioxydiphenylmethan. Sm. 179° u. Zers. (A. 330, 77 C. 1904 [1] 1148). C₁₄H₈O₈Br₆ *2) 9,10-Dinitroanthracen. Sm. 294° (A. 330, 162, 167 C. 1904 [1] 890). *8) 4-Nitrophenylimid d. Benzol-1,2-Dicarbonsäure (D.R.P. 141893 $C_{14}H_8O_4N_2$ C. 1903 [1] 1325)

*13) Phenylimid d. 3-Nitrobenzol-1,2-Dicarbonsäure. Sm. 135° (138°)

(C. 1903 [2] 431; B. 37, 2610 C. 1904 [2] 522).

- $C_{14}H_8O_4N_2$ 17) 5-Nitro-1-Amido-9,10-Anthrachinon. Sm. 200° (D.R.P. 78772; D. R. P. 147851 C. 1904 [1] 132). — *III, 298. 18) 8-Nitro-1-Amido-9,10-Anthrachinon (D.R.P. 147851 C. 1904 [1] 132). 19) 3-Nitro-2-Amido-9,10-Anthrachinon. Sm. 305-306 (D.R.P. 148109 C. 1904 [1] 230) 20) Monooxim d. 2-Nitro-9,10-Phenanthrenchinon. Sm. 213° u. Zers. (B. 36, 3732 C. 1904 [1] 35). 21) Monooxim d. 4-Nitro-9,10-Phenanthrenchinon. Sm. 169-170° (B. 36, 3736 C. 1904 [1] 36).
 22) Nitroisopyrophtalon. Sm. 199° (B. 36, 1661 C. 1903 [2] 40). $\mathbf{C}_{14}\mathbf{H}_{8}\mathbf{O}_{4}\mathbf{N}_{4}$ 2) $\alpha\beta$ -Di[2,4-Dinitrophenyl]äthen. Sm. 266—267° (B. 37, 3599° C. 1904 [2] 1500). 3) 1,5-Bisdiazo-9,10-Anthrachinon. Sulfat (B. 37, 4186 C. 1904 [2] 1742). $C_{14}H_8O_4Cl_4$ 2) 3,3'-Dichlorbiphenyl-4,4'-Dicarbonsäure. Sm. 287—288° (S.c. 85, 9) C. 1904 [1] 376, 729). C₁₄H₈O₄Br₂ 11) 4,4'-Dibrombiphenyl-2,2'-Dicarbonsäure. Sm. 277—278° (B. 37, 3569 C. 1904 [2] 1402). $C_{14}H_8O_4Br_4$ 1) Diacetat d. 1,4,6,7-Tetrabrom-2,3-Dioxynaphtalin. Sm. 2370 (A. 334, 363 C. 1904 [2] 1055). 1) Anhydrid d. $\alpha\beta\gamma\delta$ -Tetrabrom- $\alpha\delta$ -Di[2-Furanyl]butan- $\beta\gamma$ -Dicarbon-säure. Sm. 196° (Soc. 85, 190 C. 1904 [1] 645, 925). $C_{14}H_8O_5Br_4$ 3) 9,10-Anthrachinon-1-Sulfonsäure. K (B. 36, 4197 C. 1904 [1] 290; $C_{14}H_8O_5S$ B. 37, 67 C. 1904 [1] 667; B. 37, 331 C. 1904 [1] 667; B. 37, 646
 C. 1904 [1] 893; D.R.P. 149801 C. 1904 [1] 1043).
 6) 1-Oxy-9,10-Anthrachinon-6-Sulfonsäure. Na (D.R. P. 145188 C.1903) C14H8O8S [2] 1037). 8) isom. 1,2-Dioxy-9,10-Anthrachinon-P-Sulfonsäure (B. 36, 4199 C14H8O7S C. 1904 [1] 291). 9) 1,4-Dioxy-9,10-Anthrachinon-2-Sulfonsäure (D.R.P. 153129 C. 1904 [2] 751). 10) isom. 1,4-Dioxy-9,10-Anthrachinon-P-Sulfonsäure (D.R.P. 84505). – *III, 305. $C_{14}H_8O_8N_2$ *2) 4,4'-Dinitrobiphenyl-2,2'-Dicarbonsäure + H₀0. Sm. 253° (B. 36, 3740 C. 1904 [1] 37). *3) 6,6'-Dinitrobiphenyl-2,2'-Dicarbonsäure. Sm. 303° u. Zers. (B. 36, 3746 C. 1904 [1] 37). 4) 1,2,4-Trioxy-9,10-Anthrachinon-3-Sulfonsäure (D.R.P. 153129 C₁₄H₈O₈S C. 1904 [2] 751). 5) 1,2,4-Trioxy-9,10-Anthrachinon-5-[oder 8]-Sulfonsäure (B. 37, 71 C. 1904 [1] 666). 6) 1,2,4-Trioxy-9,10-Anthrachinon-8-Sulfonsäure (D.R.P. 155045 C. 1904 [2] 1270). 7) 1,2,4-Trioxy-9,10-Anthrachinon-P-Sulfonsäure (D.R.P. 84774, 97 688). — *III, 312. 8) 1,4,?-Trioxy-9,10-Anthrachinon-2-Sulfonsäure (D.R.P. 153129 C. 1904 [2] 751). *1) 9,10-Anthrachinon-1,5-Disulfonsäure (B. 36, 4197 C. 1904 [1] 290; C14H8O8S B. 37, 68 C. 1904 [1] 666). *2) 9,10-Anthrachinon-1,6-Disulfonsäure (B. 36, 4197 C. 1904 [1] 290; B. 37, 69 C. 1904 [1] 666).
 9) 9,10-Anthrachinon-1,7-Disulfonsäure (B. 36, 4197 C. 1904 [1] 290; B. 37, 69 C. 1904 [1] 666). 10) 9,10-Anthrachinon-1,8-Disulfonsäure (B. 36, 4197 C. 1904 [1] 290; B. 37, 68 C. 1904 [1] 666).
 - *III, 304. 3) 1,5-Dioxy-9,10-Anthrachinon-?-Disulfonsäure (D.R.P. 96364 C. 1898 [1] 1255). — *III, 306.

 $C_{14}H_8O_{10}S_2$

4) 1,6-Dioxy-9,10-Anthrachinon-?-Disulfonsäure. K₂ (B. 36, 2941) C. 1903 [2] 886).

2) 1,2-Dioxy-9,10-Anthrachinon-P-Disulfonsäure (D.R.P. 56952). —

5) 2,7-Dioxy-9,10-Anthrachinon-?-Disulfonsäure. K₂ (D.R.P. 99612 C. 1899 [1] 399). — *III, 309.

2) 1,3,5,7-Tetraoxy-9,10-Anthrachinon-P-Disulfonsäure. Na. (D. R. P. C., H. O., S. 70.803). — *III. 313. 1) 1,2,4,5,6,8-Hexaoxy-9,10-Anthrachinon-3,7-Disulfonsäure (D.R.P. $C_{14}H_8O_{14}S_2$ 75 490, 94397, 104244, 104367, 104750, 107238 C. 1903 [2] 1130). -3) Biphenyl-2, 4'-Disenföl (2,4'-Disorhodanbiphenyl). Sm. 94° (B. 36. C, H, N,S, 4092 C. 1904 [1] 269). 2) α-Chlorindophenazin. Sm. oberh. 300° (B. 35, 4331 C. 1903 [1] 292). 3) β-Chlorindophenazin. Sm. 310° (B. 35, 4332 C. 1903 [1] 292). 1) Bromindophenazin. Sm. 279—280° (B. 35, 4332 C. 1903 [1] 292). C,4H,N,Cl $C_{14}H_8N_3Br$ 1) 1-Chlor-2-Phenylbenzfuran. Sd. 1910, (B. 36, 3983 C. 1904 [1] C, H, OCI 171). 2) 4-Brom-1-Phenylbenzfuran. Sm. 148° (B. 36, 3982 C. 1904 [1] 171). 3) 1-Brom-2-Phenylbenzfuran. Sd. 189—191° 20 (B. 36, 4007 C. 1904 C,4H,OBr [1] 175). *5) 9-Nitroanthracen. Sm. 143-1440 (A. 330, 165 C. 1904 [1] 890). C, H, O, N *8) 1-Amido-9,10-Anthrachinon (B. 35, 3922 C. 1903 [1] 88; D.R.P. 148110 C. 1904 [1] 329; D.R.P. 149801 C. 1904 [1] 1043).

*9) 2-Amido-9,10-Anthrachinon (D.R.P. 148110 C. 1904 [1] 329). *10) 2-Amido-9,10-Phenanthrenchinon (C. 1904 |1] 461). *11) 2-Benzoylanthranil (B. 36, 2766 C. 1903 [2] 835). *12) Pyrophtalon. Sm. 260° u. Zers. (283°) (B. 36, 1654 C. 1903 [2] 39; B. 36, 3916 C. 1904 [1] 97; B. 37, 3025 C. 1904 [2] 1411). *18) Phenylimid d. Benzol-1, 2-Dicarbonsaure. Sm. 203 (C. 1903 [2] 432; B. 36, 1000 C. 1903 [1] 1131). *19) Phenylisoimid d. Benzol-1, 2-Dicarbonsäure. Sm. 120-1220 (R. 21, 339 C. 1903 [1] 156). *23) 9-Nitrophenanthren. Sm. 116-117°. Pikrat (B. 36, 2511 C. 1903 [2] 505). 27) 3-Keto-2-Phenylindol-1-Oxyd (C. 1904 [1] 1356). 28) 1,3 - Diketo - 2 - Phenyl - 2,3 - Dihydro - 5 - Isobenzazol + H.O. HCl - H_2O , $Ba + 2H_2O$, Ag (B. 37, 2142 C. 1904 [2] 234). T₁₂U, Ba + ZH₂U, Ag (B. 37, Z142 C. 1904 [2] 234).

29) Lakton d. 4-[α-Oxy-β-Phenyläthenyl]pyridin - 3-Carbonsäure (Benzalmerid). Sm. 178-180° (B. 37, 2140 C. 1904 [2] 234).

30) Isopyrophtalon. Sm. 280° (283°) (B. 36, 1657 C. 1903 [2] 39; B. 36, 3916 C. 1904 [1] 97; B. 37, 3024 C. 1904 [2] 1411).

*4) Nitril d. 2, 6-Diketo - 4-[3-Methylphenyl]-1, 2, 3, 6-Tetrahydropyridin 3, 5. Dicorbonsium M. C. 1014 (1) A. 144 (295) 1906 C,4H,O,N, pyridin - 3, 5 - Dicarbonsaure. NH_4 , Cu + $6H_2O$, Ag (A. 325, 209) C. 1903 [2] 439). 5) 3, 4 - Methylenäther d. 3 - [3, 4 - Dioxyphenyl] - 1, 2, 4 - Benztriazin. Sm. 154° (C. 1903 [2] 427). 1) Benzoat d. 2,3,5-Trichlor-4-Oxy-1-Methylbenzol. Sm. 80° (A. 328, C14HOO2Cl 281 C. 1903 [2] 1245). 3) 2-Bromacetyl-β-Naphtofuran. Sm. 113° (B. 36, 2867 U. 1903 [2] $C_{14}H_9O_2Br$ 832). CuH,OBr, Benzoat d. 3,5 - Dibrom - 2 - Oxy-1 - Brommethylbenzol. Sm. 119 1) bis 120° (A. 332, 199 C. 1904 [2] 211).
*2) Nitroanthron. Sm. 135° (148° u. Zers.) (A. 330, 171 C. 1904 [1] $C_{14}H_0O_3N$ 891; A. 330, 177 C. 1904 [i] 891). C. 1903 [1] 88; D.R.P. 154353 C. 1904 [2] 1013).
*13) 4 - Oxyphenylimid d. Benzol - 1,2 - Dicarbonsäure. Sm. 287 288

*7) 4-Amido-1-Oxy-9,10-Anthrachinon. Sm. 207—208° (B. 35, 3923

(B. 36, 1000 C. 1903 [1] 1131). 17) 5-Amido-1-Oxy-9, 10-Anthrachinon. Sm. 215-216" (210"). Na (B. 35, 3925 C. 1903 [1] 88; D.R.P. 148875 C. 1904 [1] 556; D.R.P. 149 780 C. 1904 [1] 909).

18) 6-Amido-I-Oxy-9,10-Anthrachinon (R. 36, 2936 C. 1903 [2] 885).
19) 8-Amido-I-Oxy-9,10-Anthrachinon. Sm. 214—215° (230°) (R. 35, 3927 C. 1903 [1] 89; D.R.P. 148875 C. 1904 [1] 556; D.R.P. 149780 C. 1904 [1] 909).

20) 10-Hydroxyloximido-9-Keto-9,10-Dihydroanthracen (Isonitroso-

anthron). Na (A. 330, 178 C. 1904 [1] 891). 21) Acetat d. 7-Oximido-8-Ketoacenaphten. Sm. 247° (G. 33 [1] 43 C. 1903 [1] 881).

 $C_{14}H_9O_3N$ 22) Acetat d. 2-Naphtisatin. Sm. 195° (B. 36, 1738 C. 1903 [2] 119). $\mathbf{C}_{14}\mathbf{H}_{9}\mathbf{O}_{3}\mathbf{N}_{3}$ 8) 4-Nitro-2-Acetylindazol. Sm. 162-163° (B. 37, 2584 C. 1904 659) 9) 6-Nitro-2-Benzoylindazol. Sm. 165-165,5° (B. 37, 2578 C. 1904 [2] 658). 10) Nitril d. 3-[3-Nitrobenzoyl]amidobenzol-l-Carbonsäure. Sm. 196,5 bis 197° (C. 1904 [2] 102). 11) Nitril d. 3-[4-Nitrobenzoyl]amidobenzol-1-Carbonsäure. Sm. 250 bis 251° (C. 1904 [2] 102). C14H9O8C1 3) 2-[4-Chlorbenzoyl]benzol-1-Carbonsäure. Sm. 147-1480 (151-1530) (D.R.P. 75288; D.R.P. 148110 C. 1904 [1] 329). — *II, 1000. 4) 2-[4-Brombenzoyl]benzol-1-Carbonsäure. Sm. 1690 (D.R.P. 148110 C,4H,O,Br C. 1904 [1] 329). *5) Diäthylester d. 4 - Methylphenylamidomalonsäure (Am. 30, 142 $\mathbf{C}_{14}\mathbf{H}_{0}\mathbf{O}_{4}\mathbf{N}$ C. 1903 [2] 721). 14) 2-Nitro-9,10-Dioxyphenanthren. Sm. 220° (B. 36, 3732 C. 1904 [1] 35). 15) 4-Amido-1,8-Dioxy-9,10-Anthrachinon (B. 35, 3927 C. 1903 [1] 89). $C_{14}H_9O_4N_8$ 7) Nitril d. 6-Oxy-2-Keto-4-[4-Oxy-3-Methoxylphenyl]-2,5-Dihydropyridin-3,5-Dicarbonsäure. $NH_4 + 2\frac{1}{2}H_2O$, Ag (C. 1904 [2] 902). 3) 4-Brombiphenyl-2,2'-Dicarbonsäure. Sm. 238-239° (B. 37, 3566 C₁₄H₉O₄Br C. 1904 [2] 1402).4) 5-Brombiphenyí-2,2'-Dicarbonsäure. Sm. 257° u. Zers. (B. 37, 3572 C. 1904 [2] 1403). 9) 2-[3-Nitrobenzoyl] benzol-1-Carbonsaure. Sm. 186-187° (D.R.P. $C_{14}H_9O_5N$ 148110 C. 1904 [1] 329). 10) Gem. Anhydrid d. Benzolcarbonsäure u. 4-Nitrobenzol-I-Carbonsäure. Sm. 130° (B. 36, 2537 Anm. C. 1903 [2] 720). *2) 4-Nitrobiphenyl-2,2'-Dicarbonsäure. Sm. 214-216° (B. 36, 3732 C, H, O, N C. 1904 [1] 35). 3) 5-Nitrobiphenyl-2, 2'-Dicarbonsäure. Sm. 268° (B. 36, 3734 C. 1904 [1|35).4) 6-Nitrobiphenyl-2, 2'-Dicarbonsäure. Sm. 248-250° u. Zers. (B. 36, 3737 C. 1904 [1] 36). 9) 9,9,10-Trinitro-9,10-Dihydroanthracen. Sm. 139—140° u. Zers. $C_{14}H_9O_6N_8$ (A. 330, 162 C. 1904 [1] 890). 10) 3, 9-Dinitro - 6 - Acetylphenoxazin. Sm. 192 ° (B. 36, 477 C. 1903 [1 | 651). *1) 4,6-Dinitrodiphenylamin-2,2'-Dicarbonsäure. Sm. 251-252°. Na $C_{14}H_9O_8N_8$ (G. 33 [2] 330 C. 1904 [1] 278). 2) 4,6-Dinitrodiphenylamin-2,3'-Dicarbonsäure. Sm. 273° (G. 33 [2] 332 C. 1904 [1] 278). 3) 4,6-Dinitrodiphenylamin-2,4'-Dicarbonsäure. Sm. 264-265 (G. 33 [2] 332 C. 1904 [1] 278). C 43,0 — H 2,3 — O 36,8 — N 17,9 — M. G. 391. $C_{14}H_9O_9N_5$ 1) Acetyl-2, 4, 2', 4'-Tetranitrodiphenylamin. Sm. 178° (C. 1903 [2] 1109). C 41,3 — H 2,2 — O 39,3 — N 17,2 — M. G. 407. 1) Acetat d. 2', 4', P, P-Tetranitro-4-Oxydiphenylamin. Sm. 161° (B. 37, $\mathbf{C_{14}H_9O_{10}N_5}$ 1731 C. 1904 [1] 1521). 1) 2,5-Di[3-Chlorphenyl]-1,3,4-Triazol. Sm. 220° (J. pr. [2] 69, 384 C14H9N8Cl2 C. 1904 [2] 536). *5) 2,5-Diphenyl-1,3,4-Oxdiazol. Sm. 138° (J. pr. [2] 69, 157 C. 1904 $C_{14}H_{10}ON_2$ [1] 1274). *8) 1-Benzoylbenzimidazol (B. 37, 3116 C. 1904 [2] 1316).

*9) 4-Oxy-2-Phenyl-1,3-Benzdiazin. Sm. 235° (B. 36, 2385 C. 1903 [2] 569). *11) 4-Keto-2-Phenyl-1, 4-Dihydro-1, 3-Benzdiazin. Sm. 233-234° (J. pr. [2] 67, 457 C. 1903 [1] 1421).

24) 4,4'-Azoxy-αβ-Diphenyläthen (p-Azoxystilben) (C. 1903 [1] 1414).
25) α-Pyrophtalin. Sm. 185°. HCl., (HCl, HgCl₂), (2HCl, TlCl₃), (2HCl, PtCl₄), (HCl, AuCl₃), Pikrat (B. 36, 1663 C 1903 [2] 40).
26) β-Pyrophtalin. Sm. 255°. HCl., (HCl, HgCl₂), (2HCl, TCl₃), (2HCl.

PtCl₄), (HCl, AuCl₃), H₂SO₄ (B. 36, 1664 C. 1903 [2] 41).

27) 3-Keto-1-Benzyliden-2, 3-Dihydro-2, 5-Isobenzazol (Benzalmer- $C_{14}H_{10}ON_{2}$ imidin). Sm. 234-236° (B. 37, 2145 C. 1904 [2] 235). 28) Aldehyd d. 2-Phenylindazol-2*-Carbonsäure. Sm. 94,5-95° (C. r. 137, 983 C. 1904 [1] 176; Bl. [3] 31, 872 C. 1904 [2] 661). 29) Nitril d. 3-Benzoylamidobenzol-1-Carbonsaure. Sm. 141,5-1420 (C. 1904 [2] 101). C 67,2 - H 4,0 - 0 6,4 - N 22,4 - M. G. 250.C14H10N4 1) Aldazin d. Azoxybenzol-3,3'-Dicarbonsäurealdehyd (B. 36, 3472 C. 1903 [2] 1269).
Aldehyd d. Di[4-Chlorphenyl]essigsäure (C. 1903 [2] 1052). $C_{14}H_{10}OCl_2$ 1) 10-Oxy-9-Phenylanthracendijodid (B. 37, 3343 C. 1904 [2] 1057). *3) 1,5-Diamido-9,10-Anthrachinon (D.R.P. 147851 C. 1904 [1] 132; $C_{14}H_{10}OJ_2$ $\mathbf{C}_{14}\mathbf{H}_{10}\mathbf{O}_{2}\mathbf{N}_{2}$ C. 1904 [1] 461; B. 37, 4180 C. 1904 [2] 1741). *6) 2,7-Diamido-9,10-Phenanthrenchinon. Sm. oberh. 3150 (C. 1904) [1] 462). *33) Azodibenzoyl. Sm. 118° u. Zers. (J. pr. [2] 70, 272 C. 1904 [2] 1543; J. pr. [2] 70, 289 C. 1904 [2] 1566). *40) Aldehyd d. Azobenzol-4,4'-Dicarbonsäure. Sm. 237-238° (B. 36, 2306 C. 1903 [2] 428; Bl. [3] 31, 453 C. 1904 [1] 1498). 41) 2,P-Diamido-9,10-Anthrachinon (D.R.P. 14810) C. 1904 [1] 230). 42) 4, 5-Diamido-9, 10-Phenanthrenchinon. Sm. 2350 (B. 36, 3750 C. 1904 [1] 38). 43) 3-Nitroso-1-Oxy-2-Phenylindol. Sm. 240° (C. 1904 [1] 1356). 44) Oxim d. Isopyrophtalon. Sm. 240° (E. 36, 1662 C. 1903 [2] 40). 45) 2-Phenylindazol-2²-Carbonsäure? Sm. 203—204° (204—205°) (C. r. 136, 372 C. 1903 [1] 635; C. r. 137, 983 C. 1904 [1] 176; C. r. 138, 1277 C. 1904 [2] 121; Bl. [3] 31, 873 C. 1904 [2] 661).
46) Aldehyd d. Azobenzol-3,3'-Dicarbonsäure. Sm. 150° (C. r. 138, 289 C. 1904 [1] 722). 47) Phenylimid d. 3-Amidobenzol-1,2-Dicarbonsäure. Sm. 185—187° (B. 37, 2611 C. 1904 [2] 522). 48) 2-Amidophenylimid d. Benzol-1,2-Dicarbonsäure. Sm. 184-186" (A. **327**, 49 C. **1903** [1] 1336). 49) 3-Amidophenylimid d. Benzol-1,2-Dicarbonsäure. Sm. 190 (178") (B. 10, 1165; A. 327, 42 C. 1903 [1] 1336). 50) 4-Amidophenylimid d. Benzol-1,2-Dicarbonsäure. Sm. 250° (182°?) (B. 10, 1164; A. 327, 43 C. 1903 [1] 1336). 51) 1,2-Phenylenamid d. Benzol-1,2-Dicarbonsäure. Sm. 278" (277") u. Zers. (G. 24 [1] 145; A. 327, 41 C. 1903 [1] 1336). — IV, 563. 52) Verbindung (aus p-Hydroxylaminbenzaldehyd). Sm. 205-206" (C. 1903 [1] 147). $C_{14}H_{10}O_2N_4$ 7) 6-[4-Nitrobenzyliden] amidoindazol. Sm. 215-210° (B. 37, 2580) C. 1904 [2] 659). 8) 7-[4-Nimberzyliden amidoindazol. Sm. 227-229" (B. 37, 2577) C. 1901 C₁₄H₁₀O₂Cl₂ *2) 2,6-Dichlor-4-Methylphenylester d. Benzolcarbonsäure. Sm. 91º (A. 328, 278 C. 1903 [2] 1245).

(A. 328, 278 C. 1903 [2] 1240). $C_{14}H_{10}O_{2}Cl_{4}$ 2) $\alpha\beta$ -Di[3, 5-Dichlor-4-Oxyphenyl]äthan. Sm. 160° (A. 325, 50 C. 1903 [1] 462). $C_{14}H_{10}O_{2}S_{2}$ *1) Dibenzoyldisulfid. Sm. 129—130° (133°) (B. 36, 1010 C. 1903 [1] 1077;

 $B_{14}H_{10}O_2S_2$ 1) Dibenzoylaisuind. Sm. 129—B. 36, 2272 C. 1903 [2] 563).

C₁₄H₁₀O₈N₂ *6) Aldehyd d. Azoxybenzol-4,4'-Dicarbonsäure. Sm. 190° (C. 1903 [1] 147; Am. 28, 475 C. 1903 [1] 327; B. 36, 3474 C. 1903 [2] 1270).

12) 1-Amido-5-Hydroxylamido-9, 10-Anthrachinon (I). R. P. 147851 C. 1904 [1] 132).

13) cis-γ-Keto-α-[2-Nitrophenyl]-γ-[2-Pyridyl]propen. Sm. 153° (B. 35, 4064 C. 1903 [1] 91).

14) trans-γ-Keto-α-[2-Nitrophenyl]-γ-[2-Pyridyl] propen. Sm. 141°. (2 HCl, PtCl₄), (HCl, AuCl₃) (B. 35, 4065 C. 1903 [1] 91).
15) Aldehyd d. Azoxybenzol-3,3'-Dicarbonsäure. Sm. 129° (Am. 28,

Aldehyd d. Azoxybenzol-3, 3'-Dicarbonsäure. Sin. 120° (Am. 28, 479 C. 1903 [1] 328; B. 36, 3470 C. 1903 [2] 1260; B. 36, 3801 C. 1904 [1] 25).

16) Moncaldehyd d. Azobenzol-3, 3'-Dicarbonsäure. Sm. 163°. Na (B. 36, 3473 C. 1903 [2] 1269).

- $C_{14}H_{10}O_3N_2$ 17) Monoaldehyd d. Azobenzol-4, 4'-Dicarbonsäure (B. 36, 3474 C. 1903 [2] 1270).
- 10) Anthracen-1-Sulfonsäure. Na (B. 37, 70 C. 1904 [1] 666; B. 37, $C_{14}H_{10}O_3S$ 648 C. 1904 [1] 892).
- C₁₄H₁₀O₄N₂ *4) $\alpha\beta$ -Di[4-Nitrophenyl]äthen. Sm. 250° (α . 24 [4] 500° (α . 25 [4] 500° (α . 26 [4] 500° (α . 26 [5] 490° (α . 3-Nitrobenzaldoxim. Sm. 189—190° (α . 26 [5] 490° (α . 27 [6] 490° (α . 28 [6] 490° (α . 29 [6] 490° ((B. 36, 2309 \tilde{C} . 1903 [2] 429).
 - *15) N-4-Formylphenyläther d. 4-Nitrobenzaldoxim. Sm. 224° (B. 36, 2306 C. 1903 [2] 428).
 - *17) 9,10-Dinitro-9,10-Dihydroanthracen. Sm. 1946 (A. 330, 170 C. 1904 [1] 891).
 - 27) 4,5-Diamido-1,8-Dioxy-9,10-Anthrachinon (D.R.P. 100138 C. 1899
 - [1] 655). *III, 308. 28) Nitrit d. 10-Nitro-9-Oxy-9,10-Dihydroanthracen. Sm. 125° u. Zers. (A. 330, 159 C. 1904 [1] 890).
 - 29) 2-[2-Nitrobenzyliden]amidobenzol-1-Carbonsäure. Sm. 167-168° (B. 37, 595 C. 1904 [1] 881).
 - 30) 2-[3-Nitrobenzyliden]amidobenzol-1-Carbonsäure. Sm. 198-2000 (B. 37, 595 C. 1904 [1] 881).
- 5) 6-Nitro-3-[5-Nitro-2-Methylphenylazo]indazol (B. 37, 2579 C. 1904 $C_{14}H_{10}O_4N_6$
 - [2] 659). 6) 7-Nitro-3-[6-Nitro-2-Methylphenylazo]indazol. Sm. 250—251° (B. 37, 2576 C. 1904 [2] 658).
- 4) Diacetat d. 1,4-Dichlor-2,3-Dioxynaphtalin. Sm. 140,5° (A. 334, $C_{14}H_{10}O_4Cl_2$ 354 C. **1904** [2] 1054).
- C₁₄H₁₀O₄Br₂ 4) Diacetat d. 1,4-Dibrom-2,3-Dioxynaphtalin. Sm. 175° (A. 334, 362 C. 1904 [2] 1055).
 - 5) Diacetat d. 6,7-Dibrom-2,3-Dioxynaphtalin. Sm. 155° (A. 334, 365) C. 1904 [2] 1055).
- $C_{14}H_{10}O_4Br_4$ 2) $\alpha\beta$ -Dioxy- $\alpha\beta$ -Di[3,5-Dibrom-4-Oxyphenyl]äthan. Sm. 280° u. Zers.
 - (A. 325, 41 C. 1903 [1] 461). 3) isom. $\alpha\beta$ -Dioxy- $\alpha\beta$ -Di[3,5-Dibrom-4-Oxyphenyl]äthan? Sm. 270°
- u. Zers. (A. 325, 43 C. 1903 [1] 461).

 C₁₄H₁₀O₈N₂ *11) Azoxybenzol-2, 2'-Dicarbonsäure. Sm. 250—251° (237—242°) (B. 36, 374 C. 1903 [1] 578; B. 36, 2049 C. 1903 [2] 383; C. 1904 [1] 878).

 *12) Azoxybenzol-3, 3'-Dicarbonsäure (B. 36, 3472 C. 1903 [2] 1269).
 - 22) Nitrat d. 10-Nitro-9-Oxy-9,10-Dihydroanthracen. Sm. 78-79° u.
 - Zers. (A. 330, 160 C. 1904 [1] 890). 23) 2-Nitrophenylmonamid d. Benzol-1,2-Dicarbonsäure. Sm. 145 bis
 - 146° (A. 327, 55 C. 1903 [1] 1336). 24) 3-Nitrophenylmonamid d. Benzol-1,2-Dicarbonsäure. Sm. 240°
 - (A. 327, 55 C. 1903 [1] 1336). 25) 4-Nitrophenylmonamid d. Benzol-1,2-Dicarbonsäure. Sm. 190 bis 192° (A. 327, 55 C. 1903 [1] 1336).
- 6) ?-Diamido-1,3,5,7-Tetraoxy-9,10-Anthrachinon (D.R.P. 81741, $C_{14}H_{10}O_6N_2$ 81742, 106034, 119756). — *III, 313.
- C₁₄H₁₀O₇S 1) 1,4,9,10-Tetraoxyanthracen-5-Sulfonsäure (D.R.P. 148767 C. 1904 [1] 558).
 - 2) 1,4,9,10-Tetraoxyanthracen-6-Sulfonsäure (Chinizarinhydrürsulfon-
- säure) (D.R.P. 148767 C. 1904 [1] 558; C. 1904 [2] 340).

 C₁₄H₁₀O₁₀N₄ 2) Dimethyläther d. ?-Tetranitro 4,4'-Dioxybiphenyl. Sm. 244,6° (Am. 31, 138 C. 1904 [1] 809). *1) 3,5-Diphenyl-1,2,4-Thiodiazol. Sm. 91°. (2HCl, PtCl₄) (J. pr. [2] $C_{14}H_{10}N_2S$
- 69, 45 C. 1904 [1] 521). *3) 2,5-Diphenyl-1,3,4-Thiodiazol. Sm. 141—142°; Sd. 259°₁₇ (J. pr. [2]
- 69, 158 C. 1904 [1] 1274). $C_{14}H_{10}N_2S_2$ *1) 2-Thiocarbonyl-4,5-Diphenyl-2,4-Dihydro-1,3,4-Thiodiazol (Endo-
- thiodiphenylthiobiazolin) (J. pr. [2] 67, 216 C. 1903 [1] 1260). 3) Phenylamid d. Benzthiazol-I-Thiocarbonsäure. Sm. 1550 (B. 37,
- 3727 C. 1904 [2] 1450). $C_{14}H_{10}N_2Se$ *1) 3,5-Diphenyl-1,2,4-Selendiazol. Sm. 85°. (2HCl, PtCl₄) (B. 37, 2551) C. 1904 [2] 520).
 - 2) 2,5-Diphenyl-1,3,4-Selendiazol. Sm. 156° (J. pr. [2] 69, 511 C. 1904 [2] 601).

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2) 5-Chlor-1, 4-Diphenyl-1, 2, 3-Triazol. Sm. 137 (A. 335, 106 C. 1904)
C14H10N8Cl
                 [2] 1232).
C<sub>14</sub>H<sub>11</sub>ON *17) 5-Keto-10-Methyl-5,10-Dihydroakridin (B. 37, 1567 C. 1904 [1]
                 1447)
            *24) 9-Amido-10-Oxyphenanthren (D.R.P. 141422 C. 1903 [1] 1197).
             26) γ-Keto-α-Phenyl-γ-[2-Pyridyl] propan. Sm. 75°. HCl, (2HCl, PtCl<sub>4</sub>)
             (B. 35, 4061 C. 1903 [1] 91).
27) 1-Keto-2-[2-Pyridy1]-2,3-Dihydroinden. Sm. 207,5° (B. 36, 3917
                 C. 1904 [1] 97).
             *5) 2-Keto-1, 3-Diphenyl-2, 3-Dihydro-1, 3, 4-Triazol (1, 4-Diphenyl-4, 5-
C_{14}H_{11}ON_3
                 Dihydro-1, 2, 4-Triazol-3, 5-Oxyd). Sm. 256° (J. pr. [2] 67, 263 C. 1903
                 [1] 1266).
             22) \alpha-Phenyl-\beta-[3-Cyanphenyl]harnstoff. Sm. 170,5—171° (C. 1904 [2]
                 102).
             23) 5-Oxy-1,4-Diphenyl-1,2,3-Triazol. Sm. 150-151°. Na (A. 335, 102)
                 C. 1904 [2] 1232).
             24) 2-[2-Oximidomethylphenyl]indazol. Sm. 2230 (Bl. [3] 31, 872 C. 1904
                 [2] 661).
             25) 2-Amido-4-Keto-3-Phenyl-3,4-Dihydro-1,3-Benzdiazin. Sm. 237 bis
                 238° (C. 1903 [2] 831).
             26) 2-Phenylamido-4-Keto-3,4-Dihydro-1,3-Benzdiazin.
                                                                                Sm. 256°
                 (C. 1903 [2] 831).
             27) 3-Phenylamido-4-Keto-3,4-Dihydro-1,3-Benzdiazin. Sm. 140°
                 (J. pr. [2] 69, 101 C. 1904 [1] 730).
                 C 63,4 - H 4,1 - O 6,0 - N 26,4 - M. G. 265.
\mathbf{C}_{14}\mathbf{H}_{11}\mathbf{ON}_{5}
              1) Verbindung (aus 5-Oxy-1-Phenyl-1,2,3-Triazol). Sm. 131-1320 (A. 335,
                 87 C. 1904 [2] 1231).
              2) isom. Verbindung (aus 5-Oxy-1-Phenyl-1, 2, 3-Triazol). Sm. 162-163°
                 (A. 335, 88 C. 1904 [2] 1231).
            *3) \alpha-Keto-\beta-[4-Chlorphenyl]-\alpha-Phenyläthan. Sm. 133° (J. pr. [2] 67,
C14H110Cl
                 379 C. 1903 [1] 1356).
C<sub>14</sub>H<sub>11</sub>O<sub>2</sub>N *19) Imid d. Benzolcarbonsäure. Sm. 149° (Soc. 81, 1530 C. 1903 [1] 157).
            *22) 2-Naphtylimid d. Bernsteinsäure. Sm. 1830 (B. 37, 1590 C. 1904
                 [1] 1418).
            33) 3-Oxy-5-Methyl-1-Phenylbenzoxazol. Sm. 124-126° (B. 37, 3110)
                C. 1904 [2] 994).
            34) 2-[α-Oximidoathyl]-β-Naphtofuran. Sm. 207° (B. 36, 2867 C. 1903
                 [2] 832).
            35) 6-Acetylphenoxazin. Sm. 142° (B. 36, 477 C. 1903 [1] 650).
\mathbf{C_{14}H_{11}O_{2}N_{8}} ~*9)~\mathbf{1-[4-Methylphenyl]-1,2,3-Benztriazol-5-Carbonsäure.} ~~\mathrm{Sm.}~~267~^{9}
                 [A. 332, 88 C. 1904 [1] 1569).
           *19) 5-Keto-3-Oxy-1,4-Diphenyl-4,5-Dihydro-1,2,4-Triazol. Sm. 1630
                (B. 36, 1367 C. 1903 [1] 1342).
            23) 6-Nitro-2-Benzylindazol. Sm. 111-112° (B. 37, 2578 C. 1904 [2]
                658).
             24) 5-Nitro-2-Methyl-I-Phenylbenzimidazol. Sm. 170° (J. pr. [2] 69, 41
            C. 1904 [1] 521).
25) P-Phenylazo-5-Oxy-1-Methylbenzoxazol. Sm. 91° (B. 35, 4206)
                 C. 1903 [1] 147).
            26) 1-[2-Methylphenyl]-1,2,3-Benztriazol-5-Carbonsäure. Sm. 204,5°
                (A. 332, 86 C. 1904 [1] 1569).
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27) 2-Acetylamido-3-Oxy-5,10-Naphtdiazin. Sm. noch nicht bei 340° (B. 35, 4305 C. 1903 [1] 344).

6) Diphenylchloressigsäure. Sm. 118-119° u. Zers. (B. 36, 145 C. 1903 $C_{14}H_{11}O_{2}C1$ [1] 466). C₁₄H₁₁O₂Br 9) Benzoat d. 6-Brom-2-Oxy-1-Methylbenzol. Sm. 760 (B. 37, 1022

C. 1904 [1] 1203).

 $C_{14}H_{11}O_8N$ *20) 2-Benzoylamidobenzol-1-Carbonsäure. Sm. 183 $^{\circ}$ (J. pr. [2] 69, 25 C. 1904 [1] 641). *32) Phenylmonamid d. Benzol-1, 2-Dicarbonsäure (B. 36, 997 C. 1903 [1] 1131).

43) 3-[2-Oxybenzyliden]amidobenzol-1-Carbonsäure. Sm. 202-204 (B. 37, 595 C. 1904 [1] 881).

- $C_{14}H_{11}O_{8}N$ 44) 2 - [3 - Amidobenzoyl] benzol - 1 - Carbonsäure. Sm. 165° u. Zers. (D.R.P. 148110 C. 1904 [1] 329).
 - 45) 4-Phenylacetylpyridin-3-Carbonsäure. Sm. 187-188° u. Zers. Ag (B. 37, 2143 C. 1904 [2] 234).
 - 46) Aethylester d. 1-Ketoinden-3-Cyanessigsäure. Sm. 124° (B. 33, 2431). - *II, *1141*.
 - 47) Benzoylamid d. 2-Oxybenzol-1-Carbonsäure. Sm. 122° (Soc. 81, 1533 C. 1903 [1] 157).
 - 48) Verbindung (aus α-Pikolin u. Phtalsäureanhydrid). Sm. 180° (B. 36, 1659 C. 1903 [2] 40).
- C₁₄H₁₁O₂N₃ 14) 3-Oximidomethylazobenzol-3'-Carbonsäure. Sm. 185° (B. 36, 3473 C. 1903 [2] 1270).
 - 15) Amid d. 4 Benzoxylphenylazoameisensäure. Sm. 191° u. Zers. (A. 334, 188 C. 1904 [2] 835).
- *8) 4-Amidobiphenyl-2, 2'-Dicarbonsäure. Sm. 277° u. Zers. (B. 36, $C_{14}H_{11}O_4N$ 3733 C. 1904 [1] 35).
 - *12) 4 Nitro 2 Methylphenylester d. Benzolcarbonsäure. Sm. 128° (A. 330, 95 C. 1904 [1] 1075).
 - *13) 4 Oxyphenylmonamid d. Benzol 1, 2 Dicarbonsäure. Sm. 220 bis 225° (B. 36, 998 C. 1903 [1] 1131).
 - *17) 4'- Nitro 6 Oxy-3-Methyldiphenylketon. Sm. 142-143° (B. 36, 3892 C. 1904 [1] 93).
 - *19) Methyläther d. 4'-Nitro-4-Oxydiphenylketon. Sm. 121° (B. 36, 3899 C. 1904 [1] 94).
 25) Methyläther d. 4'-Nitro-2-Oxydiphenylketon. Sm. 117—119° (B. 36, 36, 36)

 - 3900 C. 1904 [1] 94).
 26) Diphenylamin-2, 2'-Dicarbonsäure. Sm. 300° u. Zers. (D.R.P. 145604, 145605 C. 1903 [2] 1099; D.R.P. 148179 C. 1904 [1] 412).
 27) Diphenylamin d. 2, 3'-Dicarbonsäure. Sm. 281—282° (D.R.P. 148179
 - C. 1904 [1] 412).
 - 28) Diphenylamin-2,4'-Dicarbonsäure. Sm. 282-283° (D.R.P. 148179 C. 1904 [1] 412).
 - 29) 6-Amidobiphenyl-2,2'-Dicarbonsäure. Sm. noch nicht bei 300°
 - (B. **36**, 3738 C. **1904** [1] 36). 30) 2-Methyl-4-Phenylpyridin-5, 6-Dicarbonsäure. Sm. 100° u. Zers.
 - Cu (B. 36, 2457 C. 1903 [2] 671). 31) Aethylester d. P-Benzoylamidofuran-2-Carbonsäure. Sm. 99-100°
 - (C. r. 136, 1455 C. 1903 [2] 292). 32) 4 - Nitro - 3 - Methylphenylester d. Benzolcarbonsäure. Sm. 75° (A. 330, 99 C. 1904 [1] 1076).
 - 33) 6 Nitro 3 Methylphenylester d. Benzolcarbonsäure. Sm. 760 (A. 330, 99 C. 1904 [1] 1076).
- $C_{14}H_{11}O_4N_3$ 31) s-Phenyl-3-Nitrobenzoylharnstoff. Sm. 2240 (C. 1904 [1] 1559). 32) Phenylamid d. 3-Nitrophenyloxaminsäure. Sm. 2040 (Soc. 81, 1569
- C. 1903 [1] 157). C₁₄H₁₁O₅N₈ 19) 3, 5-Dinitro-4-Acetylamidobiphenyl. Sm. 240-241° (B. 37, 883) C. 1904 [1] 1143).
- $C_{14}H_{11}O_6N_8$ *4) Acetat d. 4 -[2,4 Dinitrophenyl]amido 1 Oxybenzol. Sm. 137° (B. 36, 3265 C. 1903 [2] 1126).
 - 6) 2,4-Dinitro-4'-Acetylamidodiphenyläther. Sm. 195° (B. 37, 1518
 - C. 1904 [1] 1596).
 4',6'-Dinitro-2-Methyldiphenylamin-2'-Carbonsäure. Sm. 171—172°.
 Na, K + H₂O (G. 33 [2] 325 C. 1904 [1] 278).
 4',6'-Dinitro-3-Methyldiphenylamin-2'-Carbonsäure. Sm. 203°
 - (G. 33 [2] 327 C. 1904 [1] 278).
 - 9) 4', 6'- Dinitro 4 Methyldiphenylamin 2'-Carbonsäure. Sm. 220°. Na, K + H_2O (G. 33 [2] 327 C. 1904 [1] 278).
- 1) 5, 10 Dichlor 5 Methyl 5, 10 Dihydroakridin. Sm. 280° u. Zers. C14H11NCl2 (Soc. 85, 1201 C. 1904 [2] 1059).
- 2) 5,10-Dibrom-5-Methyl-5,10-Dihydroakridin. Zers. 261° (Soc. 85, C₁₄H₁₁NBr₂ 1201 C. 1904 [2] 1060).
- 1) 5-Methylakridindijodid. Sm. 180-210° (Soc. 85, 1202 C. 1904 [2] $\mathbf{C}_{14}\mathbf{H}_{11}\mathbf{NJ}_{2}$

1) Methyläther d. 5 - Selenoakridin. Sm. 108°. (2HCl, PtCl₄), Pikrat $C_{14}H_1$, NSe (J. pr. [2] 68, 93 C. 1903 [2] 446).

8) α -Phenyl- β -[3-Cyanphenyl]thioharnstoff (C. 1904 [2] 102). $C_{14}H_{11}N_{3}S$

9) 1,4-Diphenyl-4,5-Dihydro-1,2,4-Triazol-3,5-Disulfid. Sm. 214 bis 215° (J. pr. [2] 67, 249 C. 1903 [1] 1264).

 $\mathbf{C_{14}H_{11}ClBr_{2}} \ \ 2) \ \ \alpha\beta\text{-Dibrom-α-Phenyl-β-[2-Chlorphenyl]$athan.} \ \ \mathrm{Sm.} \ 176^{\,0} \ \ (B.\ 35,\ 3971)$ C. 1903 [1] 31).

40) 2-[2-Oxymethylphenyl]indazol. Sm. 56-57°; Sd. 250°₂₀₋₂₅. (2 HCl,

PtČl.) (C. r. 138, 1277 C. 1904 [2] 121).

41) 3,8-Dimethyldiphenazonoxyd. Sm. 2000 (B. 37, 26 C. 1904 [1] 523). 42) Base (aus d. Aethyläther d. 3-Oxy-s-Diphenylhydrazin). Pikrat (B. 36, 40S2 *C*. **1904** [1] 268).

43) Aldehyd d. 4-Methylazobenzol-4'-Carbonsäure. Sm. 177,5° (B. 36, 2311 C. 1903 [2] 429).

44) Nitril d. α-Phenylamido-α-[2-Oxyphenyl]essigsäure. Sm. 113—1140 (B. 37, 4084 C. 1904 [2] 1723).

 $C_{14}H_{12}O_2N_2$ *4) α -Phenyl- β -Benzoylharnstoff. Sm. 210° (205°) (B. 36, 3220 C. 1903

*8) α-Phenyl-p-Benzoyinarnston. Snr. 210 (2007) (3. 00, 5220 C. 1000 [2] 1056; Am. 30, 418 C. 1904 [1] 241).

*8) α-Benzildioxim. K, Fe (Soc. 83, 44 C. 1903 [1] 442).

*21) s-Dibenzoylhydrazin. Snr. 237—239°. Na, K, Ph, Ag, HgCl (J. pr. [2] 69, 156 C. 1904 [1] 1274; J. pr. [2] 70, 268 C. 1904 [2] 1543; J. pr. [2] 70, 281 C. 1904 [2] 1566; J. pr. [2] 70, 303 C. 1904 [2] 1567).

*53) s-Di[Phenylamid] d. Oxalsäure. Sm. 245° (A. 332, 266 C. 1904

[2] 700). 77) 2-[3-Nitrobenzyliden]amido-1-Methylbenzol. Sm. 78-79° (Soc. 85, 1179 C. 1904 [2] 12161.

78) 4-[3-Nitrobenzyliden]amido-1-Methylbenzol. Sm. 96° (B. 36, 1024) C. 1903 [1] 1268).

79) 4-[4-Nitrobenzyliden]amido-1-Methylbenzol. Sm. 124,5° (B. 36, 1022 C. 1903 [1] 1268).

80) 2-Nitro-3-Methylbenzylidenamidobenzol (2-Nitro-3-Phenylimidomethyl-1-Methylbenzol). Sm. 51,5° (C. 1900 [2] 751). — *III, 40.

81) 6-Nitro-3-Methylbenzylidenamidobenzol (4-Nitro-3-Phenylimido-

methyl-1-Methylbenzol). Sm. 79° (C. 1900 [2] 751). — *III, 40. 82) 4,5-Diamido-9,10-Dioxyphenanthren. 2HCl (B. 36, 3749 C. 1904

[1] 38). 83) 4,4'-Di[Oximidomethyl]biphenyl. Sm. 204° (A. 332, 77 C. 1904

[2] 43).

84) 3-Nitro-9-Aethylcarbazol. Sm. 108° (C. 1904 [1] 1570).

85) Phenylimidophenylamidoessigsäure. Sm. 100° u. Zers. (Soc. 85, 995 *C.* **1904** [2] 831).

86) 2-Methylazobenzol-2'-Carbonsäure. Sm. 148° (D.R.P. 145063 C. 1903 [2] 973).

87) Acetat d. 3-Oxyazobenzol. Sm. 67,5° (B. 36, 4104 C. 1904 [1] 271). 88) Amid d. 4-Phenylacetylpyridin-3-Carbonsäure. Sm. 205-206°

u. Zers. (B. 37, 2144 C. 1904 [2] 234). 89) Monophenyldiamid d. Benzol-1, 2-Dicarbonsäure (J. pr. [2] 55, 265). - *II, 1054.

C₁₄H₁₂O₂N₄ *5) Formazylcarbonsäure. Sm. 105 (a. pr. [2]), *10) 1, 4, 5, 8-Tetraamido-9, 10-Anthrachinon (D.R.P. 143804 C. 1903

 $C_{14}H_{12}O_{2}N_{6}$ C 56,8 — H 4,0 — O 10,8 — N 28,4 — M. G. 296.

1) 7,8-Disemicarbazonacenaphten. Sm. 271 (G. 33 [1] 47 C. 1903 [1] 882).

 $C_{14}H_{12}O_2Cl_2$ 4) $\alpha \beta$ -Dichlor- $\alpha \beta$ -Di[4-Oxyphenyl] athan (A. 335, 170 C. 1904 |2| 1129). 5) Di[2-Chlorphenyläther] d. $\alpha\beta$ -Dioxyäthan. Sm. 103—104 6 (B. 36, 2874 C. 1903 [2] 834).

2) $\alpha\beta$ -Dibrom- $\alpha\beta$ -Di[4-Oxyphenyl]äthan (A. 335, 167 C. 1904 [2] 1128). $\mathbf{C}_{14}\mathbf{H}_{12}\mathbf{O}_{2}\mathbf{Br}_{2}$ 3) α -Methyläther d. 3,5-Dibrom- α , 4-Dioxydiphenylmethan. Sm. 126° (A. 334, 381 C. 1904 [2] 1052).

- $C_{14}H_{12}O_2Br_2$ 4) Di[2-Bromphenyläther] d. $\alpha\beta$ -Dioxyäthan. Sm. 110-111° (B. 36,
- 2875 C. 1903 [2] 834).
 3) Benzyläther d. 5-Merkapto-2-Methyl-1,4-Benzochinon. Sm. 136 C14H12O2S bis 137° (A. 336, 163 C. 1904 [2] 1300).
- C₁₄H₁₂O₃N₂ *25) Anhydrid d. 3-Amidobenzol-I-Carbonsäure (4. 326, 241 C. 1903 [1] 868).
 - 62) 3-Nitro-4-Acetylamidobiphenyl. Sm. 132° (B. 37, 881 C. 1904 [1] 1143).
 - 63) Phenoxazinderivat (d.4-Amido-1,3-Dioxybenzol-1-Aethyläther). Sm. 280°. HCl (J. pr. [2] 70, 329 C. 1904 [2] 1541).
 - 64) 5[oder 6]-Oxy-2[oder 3]-Methylazobenzol-2'-Carbonsäure (D.R.P. 151279 *C.* **1904** [1] 1430).
 - 65) 2-Oxymethylazobenzol-2'-Carbonsäure? Sm. 195° (C. r. 136, 372 C. 1903 [1] 635).
 - 66) Monobenzoat d. 1,4-Dioximido-2-Methyl-1,4-Dihydrobenzol. Sm.
 - 180° u. Zers. (G. 33 [1] 239 C. 1903 [1] 1409). 67) Verbindung (aus d. Verb. $C_{15}H_{14}O_3N_2$) (J. pr. [2] 70, 370 C. 1904 [2]
- 7) 3,3'-Di[Oximidomethyl]azoxybenzol. Sm. 191° (B. 36, 3471 C. 1903 C14H12O3N4 [2] 1269).
- 4) 4'-Oxy-4-Methyldisulfid-3'-Carbonsäure? Sm. 162-164° (D.R.P. C14H12O8S 147634 C. 1904 [1] 131).
- $C_{14}H_{12}O_4N_2*22)$ 3-Nitro-4-[2-Methylphenyl]amidobenzol-l-Carbonsäure. Sm. 2120 (A. 332, 84 C. 1904 [1] 1569).
 - *26) 6,6'-Diamidobiphenyl-2,2'-Dicarbonsäure (B. 36, 3747 C. 1904 [1] 38).
 - *28) 4,4'-Diamidobiphenyl-3,3'-Dicarbonsaure (C. 1903 [1] 34).
 - 61) 4,4'-Dinitro-3,3'-Dimethylbiphenyl. Sm. 228° (B. 37, 1401 C. 1904
 - 62) 24-Methyläther d. 5-Nitro-2-[4-Oxybenzyliden]amido-1-Oxybenzol. Sm. 160—161° (B. 36, 4124 C. 1904 [1] 273). 63) 1,4-Di[Succinylamido] benzol (A. 327, 25 C. 1903 [1] 1336).

 - 64) γ -Keto- α -Oxy- α -[2-Nitrophenyl]- γ -[2-Pyridyl]propan. Sm. 106° (B. 35, 4063 C. 1903 [1] 91).
 - 65) 4,2'-Diamidobiphenyl-2,4'-Dicarbonsäure (D.R.P. 69541). *II,
 - 66) 2-[2-Nitrobenzyl]amidobenzol-1-Carbonsäure. Sm. 205-206° (B. 37, 594 C. 1904 [1] 881).
 - 67) 2-[4-Nitrobenzyl]amidobenzol-l-Carbonsäure. Sm. 208-210° (B. 37, 594 C. 1904 [1] 881).
 - 68) 4,6-Dioxy-2-Methylazobenzol-3-Carbonsäure (Benzolazoorsellinsäure). Zers. bei 1910 (B. 37, 1423 C. 1904 [1] 1418).
 - 69) 4,6-Dioxy-2-Methylazobenzol-5-Carbonsäure (Benzolazoparaorsellin-
 - säure). Zers. bei 190° (B. 37, 1424 C. 1904 [1] 1418). 70) Acetylderivat d. Verb. C₁₂H₁₀O₃N₂. Zers. bei 264° (R. 21, 154
- C. 1904 [2] 194). 71) 2-Phenylamidoformiat d. 2-Oximido-5-Oxy-1-Keto-1, 2-Dihydrobenzol-5-Methyläther. Sm. 168° (*J. pr.* [2] 70, 338 *C.* 1904 [2] 1542). C₁₄H₁₂O₄N₄ *21) α-Phenylhydrazon-α-[3,5-Dinitrophenyl]äthan. Sm. 212° (*J. pr.* [2]
- 69, 469 O. 1904 [2] 596).
 - 26) α Nitro α [4-Nitrophenyl]azo α Phenyläthan. Sm. 118,5—119°
 - (B. 36, 708 C. 1903 [1] 818).
 27) Phenylhydrazid d. 2-Nitrophenyloxaminsäure. Sm. 181° u. Zers. (Soc. 81, 1568 C. 1903 [1] 157).
 - 28) Phenylhydrazid d. 3-Nitrophenyloxaminsäure. Sm. 184° (Soc. 81,
 - 1569 C. 1903 [1] 157). 29) Phenylhydrazid d. 4-Nitrophenyloxaminsäure. Sm. 217° u. Zers. (Soc. 81, 1570 C. 1903 [1] 158).
- 4) 4-Nitro-6-Nitroso-5-Methylnitrosamido-2-Methylazobenzol. Sm. C14H12O4N6 174° u. Zers. (J. pr. [2] 67, 529 C. 1903 [2] 239).
- 1) 4-Methyl-1,3-Phenylenester d. 1-Methylbenzol-2,4-Di[Thiolsulfonsaure] (J. pr. [2] 68, 334 C. 1903 [2] 1172). $C_{14}H_{12}O_4S_4$
- C₁₄H₁₂O₅N₄ 11) 2,2'-Dinitro-4'-Oxy-2,3'-Dimethylazobenzol. Sm. 147-150° (B. 37, 2582 C. 1904 [2] 659).

4) 4-[4-Methylbenzol]sulfonat d. 3,4-Dioxybenzol-1-Carbonsäure-C14H12O5S aldehyd. Sm. 118° (D.R.P. 76493). — *III, 76. 5) 2,4,6-Trinitro-3,4'-Dimethyldiphenylamin. Sm. 127° (B. 37, 2095)

C14H12O6N4 C. 1904 [2] 34). 6) 4-Methyläther d. 2,6-Dinitro-3,4-Dioxy-1-Phenylhydrazonmethyl-

benzol. Sm. 185° (B. 35, 4394 C. 1903 [1] 340).

2) 4,6-Dinitro-5-Methylnitrosamido-2-Methyldiphenylnitrosamin. C14H12O6N6 Zers. bei 100° (J. pr. [2] 67, 562 C. 1903 [2] 241). C14H12O7N4

C 48.3 - H 3.4 - O 32.2 - N 16.1 - M. G. 348.1) Aethyläther d. 2,4,6-Trinitro-3-Oxydiphenylamin. (R. 21, 326 C. 1903 [1] 80).

C 44,7 - H 3,2 - O 29,8 - N 22,3 - M. G. 376.C14H12O7N6

1) 4,6-Dinitro-5-Methylnitramido-2-Methyldiphenylnitrosamin. Sm. 141° u. Zers. (J. pr. [2] 67, 563 C. 1903 [2] 241).

Sm. 174°

*1) ?-Tetranitro-4-Dimethylamido-4'-Oxydiphenylamin. Sm. 228° u. C14H12O9N6 Zers. (J. pr. [2] 69, 166 C. 1904 [1] 1268).

*3) α -Chlor- α -Benzylimido- α -Phenylmethan. Sd. 110% (B. 36, 19) $C_{14}H_{12}NCl$ C. 1903 [1] 510; Soc. 83, 326 C. 1903 [1] 581, 876).

5) Jodmethylat d. Akridin (B. 37, 576 C. 1904 [1] 897). $C_{14}H_{12}NJ$

*3) Di[Phenylamid] d. Dithiooxalsäure. Sm. 134° (B. 37, 3722 C. 1904 $C_{14}H_{12}N_2S_2$ [2] 1450).

1) 3-Chlor-4, 6-Dimethyl-2-Phenyl-2,1,5-Benztriazol. Sm. 179-180 $C_{14}H_{12}N_8Cl$ (B. **36**, 521 C. **1903** [1] 649).

4) 2,5-Di[3-Amidophenyl]-1,3,4-Thiodiazol. Sm. 239-240°. 21[Cl $C_{14}H_{12}N_4S$ (B. **35**, 3935 C. **1903** [1] 38).

5) 3-Merkapto-1, 6-Diphenyl-1, 4-Dihydro-1, 2, 4, 5-Tetrazin. Sm. 208° (J. pr. [2] 67, 233 C. 1903 [1] 1262).

C14H18ON *4) 4-Benzylidenamido-l-Methylbenzol. Sm. 29°; Sd. 178°; (Soc. 85, 1174 C. 1904 [2] 1215).

*7) Methyläther d. 4-Oxy-1-Phenylimidomethylbenzol. Sm. 63°, HJ (B. **36**, 1539 C. **1903** [2] 53).

*11) 2-Amidophenyl-4-Methylphenylketon. Sm. 95° (B. 35, 4277 C. 1903 [1] 333).

*18) α -Oximido- $\alpha\beta$ -Diphenyläthan. Sm. 96° (B. 36, 1497 C. 1903 [1] 1351). *33) 3-Acetylamidoacenaphten. Sm. 1860 (A. 327, 82 U. 1903 [1] 1227).

*43) Phenylamid d. 1-Methylbenzol-2-Carbonsäure. Sm. 125 (B. 36, 1012 C. 1903 [1] 1078).

*45) Methylphenylamid d. Benzolcarbonsäure. Sd. 331-3320 (B. 37, 2681 C. 1904 [2] 521; B. 37, 2815 C. 1904 [2] 648).

*49) Benzylamid d. Benzolcarbonsäure. Sm. 104-105" (108") (C. r. 135,

974 C. 1903 [1] 232; B. 36, 2289 C. 1903 [2] 564). *55) 6-Amido-3-Methyldiphenylketon. Sm. 66°. HCl (Soc. 85, 595 C. 1904 [1] 1554).

69) Methyläther d. 2-Oxy-l-Phenylimidomethylbenzol (M. d. Phenyl-2-Oxybenzylidenamin). Sd. 235—236% (B. 36, 1537 C. 1903 [2] 53). 70) Methyläther d. 3-Oxy-l-Phenylimidomethylbenzol. Sd. 223-225 18

(B. **36**, 1538 C. **1903** [2] 53).

71) 4-Amido-3-Methyldiphenylketon. Sm. 112". HCl, H₂SO₄ (Soc. 85, 592 C. 1904 [1] 1554).

72) 2-Methylamidodiphenylketon. Sm. 66° (B. 35, 4276 C. 1903 [1] 333). 73) 3-Acetylamidobiphenyl. Sm. 148° (B. 37, 883 C. 1904 [1] 1143).

74) 1-Oxy-2-[2-Pyridyl]-2,3-Dihydroinden. Sd. 140-160° 10. HCl, (HCl, HgCl₂), (2HCl, PtCl₄), (HCl, AuCl₂), HNO₂ (B. 36, 1655 C. 1903 [2] 39).
75) Methylhydroxyd d. Akridin. Jodid, Pikrat (B. 37, 576 C. 1904 [1]

897).

76) Base (aus Isopyrophtalon). Fl. (HCl, HgCl2), (211Cl, PtCl4), (HCl, AuCl3) (B. 36, 1660 Č. 1903 [2] 40). $C_{14}H_{13}ON_3$ *11) 5-Acetylamido-2-Methyl- α -oder- β -Naphtimidazol. Sm. $288-290^{\circ}$

(Soc. 83, 1186 C. 1903 [2] 1444). 25) α-Benzylidenamido-α-Phenylharnstoff. Sm. 154° (B. 36, 1358 C. 1903 [1] 1340).

26) Diphenylmethylenamidoharnstoff (Benzophenonsemicarbazon). 164—165° (B. 37, 3180 C. 1904 [2] 991).

- C14H13ON8 27) 3-Keto-4,6-Dimethyl-2-Phenyl-2,3-Dihydro-1,2,5-Benztriazol. Sm. 233—234° (B. 36, 518 C. 1903 [1] 649).
 - 28) Phenylamid d. 2-Methyldiazobenzol-N-Carbonsäure. Sm. 132—1330
 - (B. 36, 1372 C. 1903 [1] 1343).
 29) Phenylamid d. 4-Methyldiazobenzol-N-Carbonsäure. Sm. 129° u. Zers. (B. 36, 1376 C. 1903 [1] 1344).
 - 30) Benzylidenhydrazid d. 2-Amidobenzol-1-Carbonsäure. Sm. 1950 (J. pr. [2] 69, 97 C. 1904 [1] 729).
- $C_{14}H_{18}O_2N$ *38) α -Phenylamido- α -Phenylessigsäure. Sm. 173 -175° (B. 37, 4084) C. 1904 [2] 1723).
 - *39) 2-Benzylamidobenzol-1-Carbonsäure. Sm. 174-1760 (B. 37, 593 C. 1904 [1] 881).
 - *41) 2-[2-Methylphényl]amidobenzol-1-Carbonsäure. Sm. 1850 (188 bis
 - 189°) (B. 36, 2384 C 1903 [2] 664; D.R.P. 145189 C. 1903 [2] 1097).
 *42) 2-[4-Methylphenyl]amidobenzol-1-Carbonsäure. Sm. 191—192° (D. R. P. 145189 C. 1903 [2] 1097).
 - *49) Aethylester d. δ-Cyan-α-Phenyl-αγ-Butadiën-δ-Carbonsäure. Sm. 115-116° (C. 1903 [2] 714).
 - *55) 2 Amidobenzylester d. Benzolcarbonsäure. HCl (B. 37, 2260 C. 1904 [2] 212).
 - 83) 4-Methoxylphenyl-2-Oxybenzylidenamin. Sm. 86° (A. 325, 248 C. 1903 [1] 632).
 - 84) Methyläther d. 2-Amido-4'-Oxydiphenylketon. Sm. 76° (B. 35, 4278 C. 1903 [1] 333).
 - 85) 2-Benzoylamido-1-Oxymethylbenzol. Sm 132-133° (B. 37, 2261 C. 1904 [2] 212).
 - 86) 3-Benzoylamido-1-Oxymethylbenzol. Sm. 115° (B. 37, 3941 C. 1904) [2] 1597).
 - 87) 3-[α-Oximidoäthyl]acenaphten. Sm. 165° (A. 327, 93 C. 1903 [1] 1228).
 - 88) Methyläther d. 3-[4-Oxyphenyl]-5-Phenylisoxazol. Sm. 128-1290 (C. r. 137, 797 C. 1904 [1] 43).
 - 89) 4-[β-Phenyläthyl]pyridin-3-Carbonsäure. Sm. 156—157°. Ag (B. 37, 2146 C. 1904 [2] 235).
 90) α-Phenyl-β-[2-Pyridyl]äthan-α²-Carbonsäure. HCl (B. 36, 3917)
 - O. 1904 [1] 97).
 - 91) Methylester d. Diphenylamin-2-Carbonsäure. Sd. 216,5-217,5° (B. 37, 3201 C. 1904 [2] 1472).
 - 92) Îmid d. 1,2,3,4-Tetrahydrobenzol-5,6-Dicarbonsaure. Sm. 137° (B. 36, 1002 C. 1903 [1] 1132).
- C₁₄H₁₃O₂N₃ *24) Phenylhydrazid d. Phenyloxaminsäure. Sm. 228° u. Zers. (Suc. 81, 1567 C. 1903 [1] 157).
 - *30) α -Methyl- α -Phenyl- β -[3-Nitrobenzyliden]hydrazin. Sm. 112—113° (B. 36, 373 C. 1903 [1] 577).
 - 47) α-Benzovlamido-β-Phenylharnstoff. Sm. 210° (B. 37, 2330 C. 1904) [2] 313).
 - 48) α -Formylphenylamido- β -Phenylharnstoff. Sm. 170° u. Zers. (J. pr. [2] 67, 263 C. 1903 [1] 1266).
 - 49) Phenyl 2 Nitro 3 Methylbenzylidenhydrazin. Sm. 141-142°
 - (C. 1900 [2] 751). *III, 40.
 50) Phenyl 6 Nitro 3 Methylbenzylidenhydrazin. Sm. 131—132° (C. 1900 [2] 751). — *III, 40.
 - 51) 4-Nitrophenyl-4-Methylbenzylidenhydrazin. Sm. 1980 (R. 22, 439 C. 1904 [1] 15).
 - 52) α -Phenylhydrazon- β -Nitro- α -Phenyläthan. Sm. 105—105,5° (A. 325, 12 C. 1903 [1] 287).
 - 53) α-Nitro-α-Phenylazo-α-Phenyläthan. Fl. (B. 36, 708 C. 1903 [1] 818).
 - 54) 4-Methyläther d. α -Oximido- α -Phenylazo- α -[4-Oxyphenyl]methan (Phenylazoanisaldoxim). Sm. 147° (B. 36, 66 C. 1903 [1] 451).
 - 55) 4-Methyläther d. α-Phenylhydrazon α-[4-Oxyphenyl]nitrosomethan. Zers bei 69,5° (B. 36, 68 C. 1903 [1] 452).
 56) 4'-Nitro-3,4-Dimethylazobenzol. Sm. 135,5° (B. 36, 1627 C. 1903)
 - [2] 31).
 - 57) $\alpha\beta$ -Diphenylguanidin-2-Carbonsäure. Sm. 248° (C. 1903 [2] 831).

 $C_{14}H_{13}O_{2}N_{3}$ 58) Methylester d. Phenylazobenzylidennitronsäure. Sm. 92 o (B. 36, 90) C. 1903 [1] 453).

59) Phenylamid d. 4-Oxy-3-Methylphenylazoameisensäure. 198—199° u. Zers. (A. 334, 190 C. 1904 [2] 835).

 $C_{14}H_{13}O_8N$ 34) 4-Nitrobenzyläther d. 4-Oxy-I-Methylbenzol. Sm. 91° (A. 224, 144). **- II**, 1060.

35) 4-Oxyphenylimid d. 1,2,3,4-Tetrahydrobenzol-5,6-Dicarbonsäure. Sm. 178° (B. 36, 1002 C. 1903 [1] 1132).

 $C_{14}H_{13}O_{3}N_{3}$ *8) 4-Nitro-2-Acetylamidodiphenylamin. Sm. 164° (J. pr. |2| 69, 41 C. 1904 [1] 521).

*31) Methyläther d. α-Phenylhydrazon-α-[4-Oxyphenyl]nitromethan.

Sm. $113,5-114^{\circ}$ (B. 36, 71 C. 1903 [1] 452). 35) α -Phenyl- β -[5-Nitro-2-Oxy-3-Methylbenzyliden]hydrazin + H₂O. Sm. $206-207^{\circ}$ (wasserfrei) (B. 37, 3917 C. 1904 [2] 1594).

36) α -Phenyl- β -[5-Nitro-4-Oxy-3-[Methylbenzyliden]hydrazin. Sm. 153—155° (B. 37, 3927 C. 1904 [2] 1595).
37) α-Phenyl-β-[5-Nitro-6-Oxy-3-Methylbenzyliden]hydrazin. Sm.

164—166° (B. 37, 3923 C. 1904 [2] 1594). 38) Methyläther d. β -[4-Oxybenzoyl]- α -Nitroso- α -Phenylhydrazin.

Sm. 123° (B. 36, 367 C. 1903 [1] 577).

23) Aethylester d. α-Cyan-β-Acetoxyl-β-Phenylakrylsäure. Fl. (Bl. [3] $C_{14}H_{13}O_4N$ 31, 337 C. 1904 [1] 1135).

24) 2-Methylphenylamid d. 3,4,5-Trioxybenzol-I-Carbonsäure. BiOH (Bl. [3] 29, 533 C. 1903 [2] 244).

 $C_{14}H_{18}O_4N_3$ 14) Aethyl-2,4-Dinitrodiphenylamin. Sm. 97,5° (C. 1904 [1] 1570)

15) Methyl-2', 4'-Dinitro-2-Methyldiphenylamin. Sm. 155° (J. pr. [2] 68, 258 C. 1903 [2] 1064).

16) 4-Methyläther d. 2-Nitro-3,4-Dioxy-1-Phenylhydrazonmethylbenzol. Sm. 157-158° (B. 35, 4396 C. 1903 [1] 340).

17) 4-Methyläther d. 5-Nitro-3,4-Dioxy-1-Phenylhydrazonmethylbenzol. Sm. 170° (B. 35, 4398 C. 1903 [1] 341). 18) 4-Methyläther d. 6-Nitro-3,4-Dioxy-1-Phenylhydrazonmethyl-

benzol. Sm. 200-201° (B. 35, 4396 C. 1903 [1] 340).

C₁₄H₁₈O₄N₅ *1) 5,5'-Dinitro-2,2'-Dimethyldiazoamidobenzol. Sm. 200-201° (B. 37. 2579 C. 1904 [2] 659).

8) 4,4'-Dinitro-2,2'-Dimethyldiazoamidobenzol. Sm. 237° (Bl. [3] 31, 641 C. 1904 [2] 96).

9) 6,6'-Dinitro-2,2'-Dimethyldiazoamidobenzol. Sm. 1910 (B. 37, 2583) C. 1904 [2] 659).

4) Methyläther d. 4, 6-Dinitro-4'-Oxy-3-Methyldiphenylamin. Sm. 1390 $C_{14}H_{18}O_5N_8$ (B. 37, 2094 C. 1904 [2] 34).

5) Aethyläther d. 4,6-Dinitro-3-Oxydiphenylamin. Sm. 170° (R. 23, 123 C. 1904 [2] 206).

2) 4,6-Dinitro-5-Methylnitrosamido-2-Methyldiphenylamin. Sm. 122° $C_{14}H_{13}O_5N_5$ (J. pr. [2] 67, 563 C. 1903 [2] 241).

 $C_{14}H_{13}O_5P$ 1) Benzoylverbindung d. α-Oxybenzylphosphinsäure. Sm. 930 (C. r. 135, 1120 C. 1903 [1] 285).

C 57,7 - H 4,5 - O 33,0 - N 4,8 - M. G. 291. C14H13O6N

1) Aethylester d.4,5-Diketo-2-[3,4-Dioxyphenylmethylenüther tetrahydropyrrol-3-Carbonsäure. Zers. bei 155°. NH, (C. r. 138, 979 C. 1904 [1] 1415).

2) 1,6-Diacetat d. 4,5,6-Trioxy-2-Aethenyl-1-Oximidomethylbenzol-4,5-Methylenäther. Sm. 100—101° (B. 36, 1534 C. 1903 [2] 52).

4) 4,6-Dinitro-5-Methylnitramido-2-Methyldiphenylamin. Sm. 1340 C14H13O6N5 (J. pr. [2] 67, 523 C. 1903 [2] 238).
 Phenyläther d. β-Imido-β-Merkapto-α-Phenyläthan. HCl (B. 36,

 $C_{14}H_{13}NS$ 3466 C. 1903 [2] 1243).

12) Phenylamid d. Phenylthioessigsäure. Sm. 87° (B. 37, 875 C. 1904 [1] 1004).

2) Phenylbenzylamidodithioameisensäure. NH, (J. pr. [2] 67, 287 C14H18NS C. 1903 [1] 1306).

 $C_{14}H_{13}N_2Br$ 6) α -[3-Bromphenyl]hydrazon- α -Phenyläthan. Sm. 112–113 $^{\circ}$ (113–115 $^{\circ}$) (Am. 21, 30; B. 36, 756 C. 1903 [1] 833).

C14H12N2J *2) Jodnethylat d. 2-Phenylindazol. Sm. 211 ° u. Zers. (188°?) (Bl. [3] 29, 746 C. 1903 [2] 629). 7) 4'-Jod-2.3'-Dimethylazobenzol. Sm. 64° (J. pr. [2] 69, 322 C. 1904

- 3) P-Dijoddi [3-Methylphenyl] jodonium chlorid. Sm. 160°. 2 + PtCl. C14H19ClJ9
- (A. 327, 283 C. 1903 [2] 351).
 3) P-Joddi[3-Methylphenyl]jodoniumbromid. Sm. 154° (A. 327, 283 C14H10BrJ. C. 1903 [2] 351).
- C14H14ON, *5) s-Phenyl-4-Methylphenylharnstoff. Sm. 212° (B. 36, 1374 C. 1903 [1] 1343).
 - *20) Phenolblau. Sm. 160° (*J. pr.* [2] 69, 162 *C.* 1904 [1] 1268). *39) 2,2'-Dimethylazoxybenzol. Sm. 59-60° (*C.* 1904 [2] 1383). *41) 4,4'-Dimethylazoxybenzol. Sm. 75° (*C.* 1904 [2] 1383). *62) Amid d. α-Phenylamido-α-Phenylessigsäure. Sm. 122—123° (*B.* 37,
 - 4084 C. 1904 [2] 1723).
 - 89) α Keto $\alpha\beta$ Di[4 Amidophenyl] äthan. Sm. 145°. 2 HCl (D.R.P.
 - 45371; A. 325, 74 C. 1903 [1] 463). *III, 163. 90) α-Phenylnitrosamidoäthylbenzol. Fl. (B. 37, 2692 C. 1904 [2] 519).
 - 91) 3-Oxy-2-Phenylhydrazonmethyl-1-Methylbenzol. Sm. 136° (B. 35, 4104 C. 1903 [1] 149).
 - 92) isom. 3-Oxy-2-Phenylhydrazonmethyl-1-Methylbenzol. Sm. 168° (B. 35, 4104 C. 1903 [1] 149).
 - 93) 5-Oxy-2-Phenylhydrazon-1-Methylbenzol. Sm. 88° u. Zers. (B. 35, 4105 C. 1903 [1] 149).
 - 94) 2-Oxy-3-Phenylhydrazonmethyl-1-Methylbenzol. Sm. 97° (B. 35, 4104 C. 1903 [1] 149).
 - 95) 4-Oxy-3-Phenylhydrazonmethyl-1-Methylbenzol. Sm. 149° (B. 35. 4104 C. 1903 [1] 149).
 - 96) 6-Oxy-3-Phenylhydrazonmethyl-1-Methylbenzol. Zers. bei 147° (B. 35, 4105 C. 1903 [1] 149).
 - 97) 2-Oxymethyl-4'-Methylazobenzol. Sm. 93° (C. r. 138, 1276 C. 1904 [2] 120; Bl. [3] 31, 868 C. 1904 [2] 661).
 - 98) Aethyläther d. 2-Oxyazobenzol. Sm. 43-44°. (2HCl. PtCl.) (B. 36.
 - 4071 C. 1904 [1] 267; B. 36, 4108 C. 1904 [1] 272),
 99) Aethyläther d. 3-Oxyazobenzol. Sm. 63,5-64°; Sd. 200°₂₂ (B. 36, 4099 C. 1904 [1] 271).
 - 100) Verbindung (aus o-Nitrobenzacetal). (2 HCl, PtCl₄) (Bl. [3] 31, 452 C. 1904 [1] 1498)
- 3) P-Joddi [3-Methylphenyl]jodoniumhydrat. Salze siehe (A. 327, 283 C,4H,4OJ, C. 1903 [2] 351).
- *1) Dibenzylsulfoxyd. Sm. 133° (B. 36, 543 C. 1903 [1] 707). C14H14OS $C_{14}H_{14}O_{2}N_{2}$ *48) 3-Amido-4-[2-Methylphenyl]amidobenzol-1-Carbonsaure. Sm. 169°
 - (A. 332, 85 C. 1904 [1] 1569). *49) 3-Amido-4-[4-Methylphenyl]amidobenzol-1-Carbonsäure. Sm. 1830 (A. 332, 88 C. 1904 [1] 1569).
 - *77) Benzyl-5-Nitro-2-Methylphenylamin. Sm. 124° (D.R.P. 141297 C. 1903 [1] 1163).
 - 82) β -Nitro- α -Phenylamido- α -Phenyläthan. HCl (B. 20, 2986; 29, 360; B. 36, 2564 C. 1903 [2] 494). — *II, 86.
 - 83) Dimethyläther d. 4,4'-Dioxyazobenzol. Sm. 160-162°; Sd. oberh. 315° (B. 36, 3162 C. 1903 [2] 947; B. 36, 3876 C. 1904 [1] 23).
 - 84) Diamidomethylbiphenylcarbonsäure. Sm. 183° (D.R.P. 145063 C. 1903 [2] 973).
 - 85) 2-Methyl-s-Diphenylhydrazin-2'-Carbonsäure. Sm. 136° (D.R.P. 145 063 C. 1903 [2] 973).
- $C_{14}H_{14}O_2N_4$ 21) β -[2-Methylphenyl]nitrosamido- α -Phenylharnstoff. Sm. 116° (B. 36, 1371 *C.* **1903** [1] 1343).
 - 22) α-Ureïdo-αβ-Diphenyinarnstoff. Sm. 210° u. Zers. (C. 1904 [2] 1028). 23) 2-Methylamido-1-[4-Nitrophenylhydrazon]methylbenzol. Sm. 245
 - bis 246° (B. 37, 984 C. 1904 [1] 1079). 24) 4'-Nitro-3-Methylamido-4-Methylazobenzol? Sm. 193—194° (C. 1903) [1] 400).
 - 25) Dimethyläther d. 3,8-Diamido-2,9-Dioxydiphenazon. Sm. 244°. 2HCl (B. 37, 35 C. 1904 [1] 524).

C 56,4 - H 4,5 - O 10,7 - N 28,2 - M.G. 298. $C_{14}H_{14}O_{2}N_{6}$ 1) 4- $[\beta$ -Phenylsemicarbazon]-1-Semicarbazon-1,4-Dihydrobenzol. Zers. bei 242° (A. 334, 171 C. 1904 [2] 834). $C_{14}H_{14}O_2Br_2$ 2) Aethylester d. Dibrombenznorcarencarbonsäure. Sm. 95-96°

(B. 36, 3505 C. 1903 [2] 1273).

*5) Dibenzylsulfon. Sm 150° (B. 36, 545 C. 1903 [1] 707). $C_{14}H_{14}O_2S$

11) 4-Benzyläther d. 4-Merkapto-2,5-Dioxy-l-Methylbenzol. Sm. 113 bis 114,5° (A. 336, 164 C. 1904 [2] 1300).

12) Verbindung (aus Merkaptomethylbenzol u. 2-Methyl-1, 4-Benzochinon).

Sm. $101-103,5^{\circ}$ (A. 336, 162 C. 1904 [2] 1300). C₁₄H₁₄O₃N₂ *10) Dimethyläther d. 2,2'-Dioxyazoxybenzol. Sm. 81° (J. pr. [2] 67, 150 C. 1903 [1] 870).

*11) Dimethyläther d. 4,4'-Dioxyazoxybenzol. Sm. 144-146° (118,5°) (B. 36, 3159 C. 1903 [2] 947; B. 36, 3874 C. 1904 [1] 23; B. 37, 45 C. 1904 [1] 654; B. 37, 3421 C. 1904 [2] 1294).

34) 4-Methoxylphenyl-2-Oxybenzylnitrosamin. Sm. 91° (A. 325, 249

C. 1903 [1] 632). 35) 2,2'-Di[Oxymethyl]azoxybenzol. Sm. 123° (B. 36, 837 C. 1903 [1]

1028). 36) α -Oxy- α -[3-Nitrophenyl]- β -[6-Methyl-2-Pyridyl]äthan + II,0. Sm.

82_83° (96° wasserfrei). HCl, (HCl, HgCl₂), (2 HCl, PtCl₄), Pikrat (B. 36, 1686 C. 1903 [2] 47). 37) Aethylester d. 5-Acetyl-4-Phenylpyrazol-3-Carbonsäure. Sm. 1130

(A. 325, 184 C. 1903 [1] 646). 38) Aethylester d. 5-Benzoyl-4-Methylpyrazol-3-Carbonsäure. Sm.

119—120° (A. 325, 187 C. 1903 [1] 647). 39) Aethylester d. 3-Keto-4-Methyl-2-Phenyl-2, 3-Dihydro-1, 2-Diazin-

Sm. 125° (R. 22, 284 C. 1903 [2] 108). 6-Carbonsäure. 6) Methylester d. 2-Phenyl-1, 2, 3, 4-Tetrazin-6-Dimethylmalonsäure.

 $C_{14}H_{14}O_{8}N_{4}$ Sm. 88-89° (Soc. 83, 1254 C. 1903 [2] 1422). 9) Aethylester d. 5-[4-Acetylamidophenyl|isoxazol-3-Carbonsäure

 $C_{14}H_{14}O_4N_2$ (B. 36, 2697 C. 1903 [2] 952).

 $C_{11}H_{14}O_4N_4$ 15) 4,6-Dinitro-5-Methylamido-2-Methyldiphenylamin. Sm. 197° (J. pr. [2] **67**, 536 *C*. **1903** [2] 239).

 $C_{14}H_{14}O_4Br_2$ 1) Dimethylester d. $\gamma\delta$ -Dibrom- δ -Phenyl- α -Buten- $\alpha\alpha$ -Dicarbonsäure. Sm. 93 ° (B. 37, 1125 C. 1904 [1] 1210; A. 336, 223 C. 1904 [2] 1733).

 $C_{14}H_{14}O_4Br_4$ 2) Dimethylester d. $\alpha\beta\gamma\delta$ -Tetrabrom- α -Phenylbutan- $\delta\delta$ -Dicarbonsäure. Sm. 135° (A. 336, 225 C. 1904 [2] 1733). 4) α -Phenylsulfon- α -Benzylsulfonmethan. Sm. 145--147° (B. 36, 300 $C_{14}H_{14}O_4S_2$

C. 1903 [1] 500). $C_{14}H_{14}O_6N_4$ *1) Dimethyläther d. 6,6'-Dinitro-4,4'-Diamido-3,3'-Dioxybiphenyl.

Sm. 222° (B. 37, 35 C. 1904 [1] 524). *2) Dimethylamidobenzol + 1,3,5-Trinitrobenzol. Sm. 108-109 (Suc. 83, 1341 C. 1904 [1] 100)

5) Aethylamidobenzol + 1,3,5-Trinitrobenzol. Sm. 55-56° (Soc. 83. 1342 C. 1904 [1] 100).

6) Difurfurylidenhydrazid d. d-Weinsäure. Sm. 204° (Soc. 83, 1364 C. 1904 [1] 85).

C14H14O6S3 1) Dimethylester d. Diphenylsulfid-4, 4'-Disulfonsäure. Sm. 970 (1180) (R. 22, 358 C. 1904 [1] 23).

 $C_{14}H_{14}N_2S$ *4) s-Phenyl-2-Methylphenylthioharnstoff. Sm. 139" (140") (B. 36, 1141 C. 1903 [1] 1220; B. 36, 3848 C. 1904 [1] 89).

14) isom. s-Phenyl-2-Methylphenylthioharnstoff. Sm. 166-168° (B. 37, 159 C. 1904 [1] 582).

15) isom. s-Phenyl-4-Methylphenylthioharnstoff. Sm. 176-178° (B. 37, 159 C. 1904 [1] 582).

6) 2,4'-Biphenylendithioharnstoff (2,4'-Dithioureïdobiphenyl). Sm. 2010 $C_{14}H_{14}N_4S_2$ (B. 36, 4092 C. 1904 [1] 269). C14H14ClJ

3) 4-Aethyldiphenyljodoniumchlorid. Sm. 169°. 2 + HgCl., 2 + PtCl. (A. **327**, 292 C. **1903** [2] 352). 4) Di[3-Watt--1-

omalijā danidemei iesti. Sm. 206°. + HgCl₂, + PtCl₄ (A. 32..... 1003 2

5) 2,3'-Dimethyldiphenyljodoniumehlorid. Sm. 183-185". + HgCl₂, $2 + \text{PtCl}_4$ (A. 327, 278 C. 1903 [2] 350).

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C14H14ClJ
                6) 3,4'-Dimethyldiphenyljodoniumchlorid.
                                                                       Sm. 186°. 2 + PtCl. +
                   2H<sub>2</sub>O (A. 327, 280 C. 1903 [2] 351).
C,4H,4BrJ
                3) 4-Aethyldiphenyljodoniumbromid. Sm. 127° (A. 327, 292 C. 1903
                   [2] 352).
                4) Di[3-Methylphenyl]jodoniumbromid. Sm. 146° (A. 327, 274 C. 1903
                   [2] 350).
                5) 2,3'-Dimethyldiphenyljodoniumbromid.
                                                                       Sm. 172° (A. 327, 278
                   C. 1903 [2] 350).
                6) 3,4'-Dimethyldiphenyljodoniumbromid.
                                                                       Sm. 184° (A. 327, 280
                   C. 1903 [2] 351).
               24) Methylphenyl-2-Oxybenzylamin. Fl. (Ar. 240, 690 C. 1903 [1] 395).
C14H,5ON
              28) Diphenylmethylamidoharnstoff (Benzhydrylsemicarbazid).
C14H15ON3
                   bis 160° (J. pr. [2] 67, 171 C. 1903 [1] 873).
              29) \alpha-Amido-\beta-Phenyl-\alpha-Benzylharnstoff. 
C. 1904 [2] 312).
                                                                  Sm. 109—110° (B. 37, 2326
               30) \alpha-Amido-\beta-Phenyl-\alpha-[2-Methylphenyl]harnstoff. Sm. 136° (B. 36,
                   1369 C. 1903 [1] 1342).
              31) \alpha-Amido-\alpha-[3-Methylphenyl]-\beta-Phenylharnstoff. Sm. 112° (B. 36,
                   1373 C. 1903 [1] 1343).

    32) α-Amido-α-[4-Methylphenyl]-β-Phenylharnstoff. Sm. 184—185°.
    HCl (B. 36, 1374 C. 1903 [1] 1343).

              33) \beta-[2-Methylphenyl]amido-\alpha-Phenylharnstoff. Sm. 142° (B. 36, 1371
                   C. 1903 [1] 1343).
              34) \beta-[3-Methylphenyl]amido-\alpha-Phenylharnstoff. Sm. 159° (B. 36, 1373 C. 1903 [1] 1343).
              35) \beta-[4-Methylphenyl]amido-\alpha-Phenylharnstoff. Sm. 171° (B. 36, 1375)
                   C. 1903 [1] 1343).
              36) Aethyläther d. 4-Amido-3-Oxyazobenzol. Sm. 109-110,5° (B. 36,
                  4097 C. 1904 [1] 270).
               3) 4-Aethyldiphenyljodoniumhydrat. Salze siehe (A. 327, 292 C. 1903
C14H15OJ
                   [2] 352).
               4) Di [3 - Methylphenyl] jodonium hydrat.
                                                                    Salze siehe (A. 327, 273
                   C. 1903 [2] 350).
               5) 2,3'-Dimethyldiphenyljodoniumhydrat.
                                                                     Salze siehe (A. 327, 278
                   C. 1903 [2] 351).
               6) 3,4'-Dimethyldiphenyljodoniumhydrat. Salze siehe (A. 327, 280
                   C. 1903 [2] 351).
              35) 4'-Methylamido-2,4-Dioxydiphenylmethan. Sm. 111-112°. HCl
C_{14}H_{15}O_{2}N
                  (M. 23, 992 C. 1903 [1] 289).
              36) 4-Methoxylphenyl-2-Oxybenzylamin. Sm. 127° (A. 325, 248 C. 1903

37) 1-Methyläther d. 2-[2-Oxybenzyl]amido-1-Oxybenzol. Sm. 70—71° (Ar. 240, 689 C. 1903 [1] 395).
38) 1-Methyläther d. 4-[2-Oxybenzyl]amido-1-Oxybenzol. Sm. 128°

                   Ar. 240, 681 C. 1903 [1] 395).
              39) 1-Benzyläther d. 5-Amido-4-Oxy-1-Oxymethylbenzol. Sm. 76-780
              (D.R.P. 148977 C. 1904 [1] 699).

40) αγ-Dioxy-β-Phenyl-β-[2-Pyridyl] propan. Sm. 106—107°. (2HCl, PtCl<sub>4</sub>), Pikrat (J. pr. [2] 69, 312 C. 1904 [1] 1613).

41) αγ-Dioxy-β-Phenyl-β-[4-Pyridyl] propan. Sm. 194°. (2HCl, PtCl<sub>4</sub>)
                  (J. pr. [2] 69, 316 C. 1904 [1] 1613).
              42) Benzoat d. lab. 4-Oximido-5-Methyl-1, 2, 3, 4-Tetrahydrobenzol.
              Sm. 142—143° (C. 1903 [1] 329; A. 329, 372 C. 1904 [1] 517).
43) Benzoat d. stab. 4-Oximido-5-Methyl-1,2,3,4-Tetrahydrobenzol.
                  Sm. 90—91° (C. 1903 [1] 329; A. 329, 373 C. 1904 [1] 517).
C<sub>14</sub>H<sub>15</sub>O<sub>2</sub>N<sub>3</sub> *6) 4-Dimethylamido-3'-Oxydiphenylnitrosamin. Sm. 125-126° (J. pr.
                  [2] 69, 237 C. 1904 [1] 1269).
               9) Aethyl-4-Nitro-2-Amidodiphenylamin. Sm. 86,5°. H<sub>2</sub>SO<sub>4</sub> (C. 1904)
              [1] 1570).
10) 4'-Nitroso-4-Dimethylamido-3'-Oxydiphenylamin. Sm. 164° (J. pr.
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[2] 69, 238 C. 1904 [1] 1269). 11) 3-Methyläther d. 2-Amido-3,4-Dioxy-I-Phenylhydrazonmethyl-

benzol. Sm. 165° (C. 1903 [2] 31).

 $C_{14}H_{15}O_2N_8$ 12) 4 - [β - Phenylhydrazido] - 2, 6 - Dimethylpyridin - 3 - Carbonsäure. Sm. 176—177°. HCl (B.~36,~517~C.~1903~[1]~648).

 $C_{14}H_{15}O_2P$ *1) Dibenzylphosphinsäure. Sm. 190—191° (\vec{C} . \vec{r} . 139, 675 \vec{C} . 1904 [2] 1638).

 $C_{14}H_{15}O_{8}N$ 17) Methylester d. α -Cyan- β -Oxy- β -Phenylakrylpropyläthersäure. Sm. 84° (C. r. 136, 691 C. 1903 [1] 920; Bl. [3] 31, 342 C. 1904 [1] 1135).

18) Phenylmonamid d. 1, 2, 3, 4-Tetrahydrobenzol-5, 6-Dicarbonsäure.
 Sm. 155° (B. 36, 999 C. 1903 [1] 1131).

C₁₄H₁₅O₃N₃ 2) Aethylester d. Acetyl-4-Methylphenylhydrazoncyanessigsäure. lab. Modif. Sm. 216°; stab. Modif. Sm. 218—219° (*J. pr.* [2] 67, 407 *C.* 1903 [1] 1347).

C. 1903 [1] 1347). $C_{14}H_{15}O_4N$ *1) i- α -[1, 2-Phtalyl]amidopentan - α - Carbonsäure. Sm. 141,5—142° (B. 37, 1695 C. 1904 [1] 1525). 13) Aethylester d. α -Cyan- β -[3,4-Dioxyphenyl]akryl-3,4-Dimethyl-

äthersäure. Sm. 156° (C. 1904 [2] 903).

14) 4-Oxyphenylmonamid d. 1,2,3,4-Tetrahydrobenzol-5,6-Dicarbonsäure. Sm. 170-175° (B. 36, 999 C. 1903 [1] 1131).
C 53,0 - H 4,7 - O 20,2 - N 22,1 - M. G. 317.

 $C_{14}H_{15}O_4N_5$ C 53,0 — H 4,7 — O 20,2 — N 22,1 — M. G. 317. 1) 4,6-Dinitro-5-Methylamido-2-Methyl-s-Diphenylhydrazin. Sm. 155 (J. pr. [2] 67, 537 C. 1903 [2] 239).

 $C_{14}H_{15}O_4Br$ 2) Dimethylester d. γ -Brom- α -Phenyl- α -Buten- $\delta\delta$ -Dicarbonsäure. Fl. (4. 336, 200 C. 1904 [2] 1731).

C₁₄H₁₅O₄Br₃ 1) Dimethylester d. $\alpha\beta\gamma$ -oder $\alpha\beta\delta$ -Tribrom- α -Phenylbutan- $\delta\delta$ -Dicarbonsäure. Sm. 126—127° (A. 336, 226 C. 1904 [2] 1733).

C₁₄H₁₅O₄P. *3) Aethyldiphenylester d. Phosphorsäure (D.R.P. 142971 C. 1903 [2]

Di[α-Oxybenzyl]unterphosphorige Säure. Sm. 230° (C. 1904 [2] 1709).

C₁₄H₁₅O₅N 3) Aethylester d. 4-Acetylamidobenzoylbrenztraubensäure. Sm. 80 bis 124°. Cu (B. 36, 2696 C. 1903 [2] 952).

4) Aethylester d. 4-Aethoxylphtalylamidoessigsäure. Sm. 118 ° (B. 37, 1974 C. 1904 [2] 236).

1974 C. 1904 [2] 236).
5) Aethylester d. 4,5-Diketo-2-[4-Methoxylphenyll*etrahydropyrrol-3-Carbonsäure. Zers. bei 160°. NII₄ (... × 1.38, ... C. 1904 [1] 1415).

6) Aethylester d. 4,6[oder 4,7]-Dioxy-1-Keto-1,2-Dihydroisochinolin-6[oder 7]-Aethyläther-3-Carbonsäure. Zers. bei 233° (B. 37, 1974 C. 1904 [2] 236).

 $C_{14}H_{15}O_5Br_8$ 3) $\alpha,4$ -Diacetat d. 2,5-Dibrom-3,4-Dioxy-1-[β -Brom- α -Oxypropylbenzol. Sm. 139—140° (α . 329, 27 α . 1903 [2] 1436).

 $C_{14}H_{15}O_6N$ *2) Diäthylester d. α -[3-Nitrophenyl]äthen- $\beta\beta$ -Dicarbonsäure. Sm. 75—76° (Soc. 83, 723 C. 1903 [2] 55).

6 - Methylester - 4 - Aethylester d. 2 - Keto - 3,4 - Dihydro - 1,4 - Benzoxazin - 4 - Methylcarbonsäure - 6 - Carbonsäure - Sm. 136° (A. 325, 336 C. 1903 [1] 771).

 Aethylester d. 4,5-Diketo-2-[4-Oxy-3-Methoxylphenyl]tetrahydropyrrol-3-Carbonsäure. Zers. bei 180°. NH; (C. r. 138, 979 C. 1904 [1] 1415).

6) Diacetat d. 4-Diacetylamido-1, 3-Dioxybenzol. Sm. 106—108° (B. 35, 4193 C. 1903 [1] 145; B. 35, 4204 C. 1903 [1] 146; J. pr. [2] 70, 326 C. 1904 [2] 1541).

, 7) Mono[4-Aethoxylphenylamid] d. Akonitsäure + H₂O. Sm. 72° (129° wasserfrei). + C₂H₄O₂ (C. 1903 [2] 565).

C₁₄H₁₅O₈N 2) Triacetat d. 5-Nitro-4-Oxy-3-Dioxymethyl-1-Methylbenzol. Sm. 132 bis 132,5° (B. 37, 3926 C. 1904 [2] 1595).

C₁₄H₁₅NCl₂ 1) Base (aus 2- oder 4-Methyl-1,2,3,4-Tetrahydrocarbazol). Sm. 125—126%. Pikrat (C. 1904 [2] 343).
C₁₄H₁₅NS 1) 4-Amido-2,4'-Dimethyldiphenylsulfid (J. pr. [2] 68, 289 C. 1903

1) 4-Amido-2,4'-Dimethyldiphenylsulfid (J. pr. [2] 68, 289 C. 1903 [2] 995).
 2) 4-Amido-3,4'-Dimethyldiphenylsulfid. Sm. 48-49°. HCl, (2HCl,

2) 4-Amido-3,4'-Dimethyldiphenylsulfid. Sm. 48—49°. HCl, (2 HCl, PtOl₄), H₂SO₄, Oxalat, Pikrat (J. pr. [2] 68, 279 C. 1903 [2] 994). C₁₄H₁₅N₃S *8) α -Phenylamido- β -Benzylthioharnstoff. Sm. 162° (J. pr. [2] 67, 217 C. 1903 [1] 1260).

 $C_{14}H_{15}N_3S$ *17) α -Amido- β -Phenyl- α -Benzylthioharnstoff. Sm. 123° (B. 37, 2328) O. 1904 [2] 313).

20) α -Benzylamido- β -Phenylthioharnstoff. Sm. 155° (B. 37, 2329 C. 1904 [2] 313).

 $C_{14}H_{16}ON_{6}$ *9) Aethyläther d. 4,4'-Diamido-3-Oxybiphenyl. Sm. 139° (B. 36, 4072 O. 1904 [1] 267).

*10) Aethyläther d. 6,4'-Diamido-3-Oxybiphenyl (B. 36, 4087 C. 1904

*20) 4-Dimethylamido-3'-Oxydiphenylamin. Sm. 99°. HCl, H₂SO₄ (J. pr. [2] 69, 232 C. 1904 [1] 1269).

*21) 4-Dimethylamido-4'-Oxydiphenylamin. Sm. 161° (J. pr. [2] 69, 161 C. 1904 [1] 1267).

- 26) Aethyläther d. 2-Oxy-s-Diphenylhydrazin. Sm. 66° (B. 36, 4072 C. 1904 [1] 267).
- 27) Aethyläther d. 3-Oxy-s-Diphenylhydrazin. Sm. 74-75° (B. 36, 4113 C. 1904 [1] 272). 28) Aethyläther d. 4-Oxy-s-Diphenylhydrazin. Sm. 86° (B. 36, 3848
- C. 1904 [1] 89).
- 29) I-Phenacetylamido-2,5-Dimethylpyrrol. Sm. 110—111°; Sd. 245 bis 265°₂₆ (B. 35, 4321 C. 1903 [1] 336).
- 30) 1-Benzoyl-3-Methyl-5-Propylpyrazol (oder 1-Benzoyl-5-Methyl-3-Propylpyrazol). Fl. (Bl. [3] 27, 1087 C. 1903 [1] 226).
- 10) $\text{Di}[\beta\text{-2-Pyridyläthyl}]$ nitrosamin. Fl. (HCl, PtCl_4) (B. 37, 173 C. 1904 $C_{14}H_{16}ON_4$ [1] 673).
- $C_{14}H_{16}O_2N_2$ 21) Aethylester d. α -Cyan- β -Aethylamido- β -Phenylakrylsäure. 90—91° (Bl. [3] 31, 343 C. 1904 [1] 1135).

 22) Acetat d. 3,3-Dimethyl-2-[α-Oximidoäthyl]pseudoindol. Sm. 149°

(G. 32 [2] 431 C. 1903 [1] 838).

- $C_{14}H_{16}O_3N_2$ 16) 2,4,6-Triketo-5,5-Diäthyl-1-Phenylhexahydro-1,3-Diazin. Sm. 197° (D.R.P. 146496 C. 1903 [2] 1484; A. 335, 349 C. 1904 [2] 1381).
- $C_{14}H_{16}O_{8}N_{4}$ 4) 5-[4-Dimethylamidophenyl]imido-2,4,6-Triketo-1,3-Dimethylhexahydro-1,3-Diazin (Tetramethylureïdindoanilin). Sm. 168° (A. 333, 38 $C_{14}\mathbf{H}_{16}\mathbf{O}_{4}\mathbf{N}_{2}$ *1) Coffearin (C. 1904 [2] 837).

- 12) γ -Aethylester d. α -Phenylhydrazon- β -Oxybutan- $\alpha\gamma$ -Dicarbonsäureαγ-Lakton. Sm. 120° (R. 22, 283 C. 1903 [2] 107).
- $\mathbf{C}_{14}\mathbf{H}_{16}\mathbf{O}_{4}\mathbf{N}_{4}$ C 55,3 - H 5,3 - O 21,0 - N 18,4 - M.G. 304.
 - Methylester d. 2-Phenylamido-1, 2, 3, 6-Oxtriazin-5-[Isobutyryl-α-Carbonsäure]. Sm. 139° (u. 154°) (Soc. 83, 1250 C. 1903 [2] 1422).
- $C_{14}H_{16}O_5N_2$ *5) Diäthylester d. β -Phenylhydrazon- α -Ketoäthan- $\alpha\beta$ -Dicarbonsäure. Sm. 72—73° (Bl. [3] 31, 78 C. 1904 [1] 580; Bl. [3] 31, 94 C. 1904 [1] 581).
 - 6) Monooxim d. 4-Acetylamidobenzoylbrenztraubensäureäthylester. Sm. 177—178° (B. 36, 2697 C. 1903 [2] 952).
 - Diäthylester d. isom. β-Phenylhydrazon-α-Ketoäthan-αβ-Dicarbonsäure. Sm. 126-127° (Bl. [3] 31, 79 C. 1904 [1] 580; Bl. [3] 31, 95
 - C. 1904 [1] 581).
 Butyrat d. 5-Oxy-3-Methyl-1-Phenylpyrazol. Sd. 172% (B. 36, 530) C. 1903 [1] 642).
- C 52,5 H 5,0 O 25,0 N 17,5 M. G. 320.C14H16O5N4
 - 1) 3,6'-Dinitro-4'-Oxy-2,5,2',5'-Tetramethylazobenzol. Sm. 226—227° (B. 37, 2593 C. 1904 [2] 660).
- α,4-Diacetat d. 5-Brom-3,4-Dioxy-1-[β-Brom-α-Oxypropyl]benzol-3-Methyläther. Sm. 112—114° (A. 329, 19 C. 1903 [2] 1435). $C_{14}H_{18}O_5Br_9$
- $C_{14}H_{16}O_6N_2$ 11) 1,3 Phenylendisuccinaminsäure. Sm. 215°. Zers. bei 220—221° (A. 327, 31 C. 1903 [1] 1336).
 - 12) 1,4-Phenylendisuccinaminsaure. Sm. 262° (A. 327, 33 C. 1903 [1]
 - 13) Dilaktam d. γδ-Diimidohexan-ββεε-Tetracarbonsäure-βε-Diäthylester. Sm. 150° (A. 332, 127 C. 1904 [2] 189).
 14) Dicyanmalonmethylacetessigesterlaktam. Sm. 139° (A. 332, 130
 - C. 1904 [2] 190).
 - 15) Furfurylamid d. d-Weinsäure. Sm. 179° (Soc. 83, 1346 C. 1904 [1] 83).

 $C_{14}H_{16}O_6Br_2$ 1) α -Acetat d. 6-Brom-2, 3, 4, 5-Tetraoxy-1-[β -Brom- α -Oxypropyl]benzol - 3,4 - Methylenäther - 2,5 - Dimethyläther? Sm. 114-1150 (C. 1903 [1] 970).

C 47,7 — H 4,5 — O 31,8 — N 15,9 — M. G. 352. $C_{14}H_{16}O_7N_4$

1) Lakton d. γ -Semicarbazon- α -Oxy- α -[6-Nitro-3,4-Dimethoxylphenyl]butan-2-Carbonsäure (Semicarbazon d. Acetonylnitromekonin). Sm. 218° (B. 36, 2209 C. 1903 [2] 443).

2) Tetraacetat d. 1,3-Dijodobenzol. Sm. 204° (B. 37, 1305 C. 1904 [1] $C_{14}H_{16}O_8J_2$

2) 4- $[\alpha$ -Chloräthyl]-1-Methylbenzol + Pyridin. 2 + PtCl₄ (B. 36. C₁₄H₁₆NCl 1636 C. 1903 [2] 26).

2) Dimethyldiphenylammoniumjodid. Sm. 1630 (B. 36, 2488 C. 1903 C14H16NJ [2] 564).

1) Diphenochinon-NN'-Dimethyldiimoniumchlorid. 2 + PtCl₄ (B. 37, $C_{14}H_{16}N_2Cl_2$ 3774 C. 1904 [2] 1548). 1) 4-Phenylthiosemicarbazido-2, 6-Dimethylpyridin. Sm. 199°. Pikrat

 $C_{14}H_{16}N_4S$ (B. 36, 1117 C. 1903 [1] 1185). 12) 4-[α-Oxyäthyl]-1-Methylbenzol + Pyridin. Chlorid, 2 Chlorid + PtCl₃, Pikrat (B. 36, 1636 C. 1903 [2] 26). C14H17ON

6) 4'-Amido-4-Dimethylamido-3'-Oxydiphenylamin (J. pr. [2] 69, 238 $C_{14}H_{17}ON_3$

C. 1904 [1] 1269). 7) 5-Oxy-l-Phenyl-3-Hexahydrophenyl-1, 2, 4-Triazol. Sm. 196-1970 (B. 36, 1096 C. 1903 [1] 1140).

22) $\beta\delta$ -Diketo- γ -[4-Dimethylamidobenzyliden] pentan. Sm. 95° (B. 37, $C_{14}H_{17}O_{2}N$ 1744 C. 1904 [1] 1599).

23) Base d. Pyridyliumchlorid C₁₄H₁₆ONCl. Pikrat (B. 36, 3590 C. 1903 [2] 1365).

24) Benzoat d. 2 - Oximido - 1 - Methylhexahydrobenzol. Sm. 70-72° (A. 329, 376 C. 1904 [1] 517).

25) Benzoat d. d-3-Oximido-1-Methylhexahydrobenzol. Sm. 96-970 (A. 332, 339 C. 1904 [2] 652).

26) Benzoat d. 1-3-Oximido-1-Methylhexahydrobenzol. Sm. 82-830 (A. 332, 340 C. 1904 [2] 653).

27) α-Benzoat d. i-3-Oximido-1-Methylhexahydrobenzol. Sm. 105-106° (A. 332, 345 C. 1904 [2] 653).

28) β-Benzoat d. i-3-Oximido-1-Methylhexahydrobenzol. Sm. 70-72° (A. 332, 346 C. 1904 [2] 653).

7) Aethylester d. 1,5-Dimethyl-2-Phenyl-2,3-Dihydropyrazol-3-C14H17O2N8 Imidoameisensäure (Iminopyrinäthylurethau). Sm. 178° (B. 36, 3284

 C. 1903 [2] 1190).
 Diäthyläther d. 3-Methyl-5-[2,4-Dioxyphenyl]isoxazol. Sm. 126,5% $C_{14}H_{17}O_8N$ (B. 37, 356 C. 1904 [1] 670).

19) Anhydrohydrastininaceton. Sm. 72°. (2 HCl, PtCl₄) (B. 37, 214 C. 1904 [1] 590).

4) 4-[β-Oximido-β-4-Isopropylphenyläthyl]-1,2,3,6-Dioxdiazin. Sm. 167,5° u. Zers. (A. 330, 259 C. 1904 [1] 947). C14H17O8N8

7) Oxim d. Mekoninmethyläthylketon. Sm. 109-1120 (M. 25, 1056 C14H17O5N C. 1904 [2] 1644).

8) Diäthylester d. 4-Acetylamidobenzol-1,3-Dicarbonsäure. Sm. 108° (D. R. P. 102894). — *II, 1063.

3) α-Benzoylamidopropionylamidoacetylamidoessigsäure. Sm. 204 bis 205°. Ag (J. pr. [2] 70, 156 C. 1904 [2] 1395).
4) Methylester d. δ-Oximido-ε-Phenylhydroxylhydrazon-γ-Keto-β-1006. C14H17O5N8

Methylpentan- β -Carbonsäure. Sm. iii. - 1.1 . H_2SO_4 (Soc. 83, 1243 C. 1903 [2] 1421). C 50,1 — H 5,1 —

C14H17O5N5 H 5,1 — O 23,9 — N 20,9 — M. G. 335. 1) Verbindung (aus d. β-Dicyanacetessigsäureäthylester). Sm. 219 ° (A. 332,

137 C. 1904 [2] 190j.

 $C_{14}H_{17}O_6N$ 12) α, N-Diäthylester d. Phenylamidoessigsäure-2-Carbonsäure-N-Carbonsäure. Sm. 114-116 (D.R.P. 138207 C. 1903 [1] 305).

13) 2, N-Diäthylester d. Phenylamidoessigsäure-2-Carbonsäure-N-Carbonsäure. Sm. 106—108° (D. R. P. 138207 C. 1903 [1] 305). 6) Nitril d. α -[4-Oxyphenyl]- α -[1-Piperidyl]essigmethyläthersäure. Sm. 75—76° (B. 37, 4086 C. 1904 [2] 1724). $C_{14}H_{18}ON_2$

- C14H18OBr 1) $\alpha\beta$ -Dibrom- γ -Keto- α -[4-Isopropylphenyl] pentan. Sm. 141° (A. 330, 259 C. 1904 [1] 947).
- C₁, H₁₈O₂N₂ *3) 5,8-Di[Acetylamido]-1,2,3,4-Tetrahydronaphtalin. Sm. 291—292° (Soc. 85, 755 C. 1904 [2] 448).
 - 13) γ -Nitrimido α -[4-Isopropylphenyl]- β -Methyl- α -Buten. Sm. 169,50 (A. 330, 262 C. 1904 [1] 947).
- 3) γ -Semicarbazon- δ -Oximido- α -[4-Isopropylphenyl]- α -Buten. Sm.176° u. Zers. (C. 1904 [1] 28; A. 330, 254 C. 1904 [1] 946). $C_{14}H_{18}O_{2}N_{4}$
- $C_{14}H_{18}O_3N_2$ 8) Aethylester d. α -[4-Dimethylamidophenyl]imido- β -Ketopropan- α -Carbonsäure. Sm. 63,5 ° (B. 36, 3233 C. 1903 [2] 941).
 - 9) Isobutylester d. β -Phénylhydrazon- α -Ketobuttersäure. Sm. 98—99° (C. r. 138, 1222 C. 1904 [2] 27; C. r. 139, 134 C. 1904 [2] 588).
- 9) Methylester d. β-Benzoylamidoacetylamidobuttersäure. Sm. 104° $C_{14}H_{18}O_4N_2$ (J. pr. [2] 70, 206 C. 1904 [2] 1459).
 - 10) Aethylester d. α-Benzoylamidoacetylamidopropionsäure. Sm. 124 bis 126° (J. pr. [2] 70, 116 C. 1904 [2] 1036).
 - Aethylester d. α-Benzoylamidopropionylamidoessigsäure. Sm. 108° (J. pr. [2] 70, 153 C. 1904 [2] 1395).
- 1) 1,4-Diacetat d. 2,5-Dimerkapto-1,4-Dioxybenzol-2,5-Diäthyläther. C14H18O4S2 Sm. 133—134° (A. 336, 159 C. 1904 [2] 1300).
- 6) Aethylester d. β Amido α Benzoylamidoacetoxylpropionsäure. Sm. 96° (J. pr. [2] 70, 203 C. 1904 [2] 1459).
 7) Diäthylester d. 2-Methylphenylnitrosamidomalonsäure. Fl. (Am. 30, 138 C. 1903 [2] 721). $C_{14}H_{18}O_5N_2$

 - 8) Diäthylester d. 3-Methylphenylnitrosamidomalonsäure. Sm. 58 bis 58,5° (Am. 30, 140 C. 1903 [2] 721).
 - 9) Diäthylester d. 4-Methylphenylnitrosamidomalonsäure (Am. 30, 143 C. 1903 [2] 721).
- $C_{14}H_{18}O_5Br_2$ *1) 3,4-Dimethylenäther-2,5-Dimethyläther- α -Aethyläther d. β -Brom- α -Oxy- α -[6-Brom-2, 3, 4, 5-Tetraoxyphenyl] propan. Sm. 72—73° (C. 1903 [1] 970).
- 1) Aethylester d. α -[2,4-Dimethylphenylthiosulfon]acetessigsäure. Fl. (J. pr. [2] 70, 386 C. 1904 [2] 1720). C14H18O5S,
- 1) Benzylidenmalonäthylesterhydrosulfonsäure. K $+ 1\frac{1}{2}H_2O$ (B. 37, C14H18O7S 4058 C. 1904 [2] 1649).
- 1) Verbindung (aus Apiol). Sm. 157-158° (B. 36, 3582 C. 1903 [2] $C_{14}H_{18}O_7Hg$ 1363).
- *1) Verbindung (aus Dimethylacetessigsäuremethylester). Sm. 65° (Soc. 83, 1232 C. 1903 [2] 1420). $C_{14}H_{18}O_8N_2$
- 1) 1,3-Phenylendi
[α -Sulfonbuttersäure]. Ba (J. pr. [2] 68, 329 \mathcal{C} . 1903 $C_{14}H_{18}O_8S_2$ [2] 1171).
 - 2) Diäthylester d. 1, 3-Phenylendi [Sulfonessigsäure]. Sm. 86—87° (J. pr. [2] 68, 326 C. 1903 [2] 1171).
 1) Quecksilberderivat d. 2, 3, 4, 5-Tetraoxy-1-[αβ-Dioxypropyl] benzol-
- C,4H,8O,Hg 3,4-Methylenäther-2,5-Dimethyläther. Sm. 174° u. Zers. (B. 36,
- 3584 C. 1903 [2] 1364).
 5) Isobutyläther d. 5-Merkapto-3-Methyl-1-Phenylpyrazol. Sd. 313 $C_{14}H_{18}N_{2}S$ bis 314° (A. 331, 236 C. 1904 [1] 1221).
- 13) γ-Oximido-α-[4-Isopropylphenyl]-β-Methyl-α-Buten. Sm. 116,5° (A. 330, 262 C. 1904 [1] 947).
 14) C-Allylcyancampher. Sd. 155—165°₁₀ (C. r. 136, 789 C. 1903 [1] $C_{14}H_{19}ON$
 - 1085).
 - 15) O-Allylcyancampher. Sd. 140-150° (C. r. 136, 789 C. 1903 [1] 1085). $C_{68,6} - H_{7,8} - O_{6,5} - N_{17,1} - M.G._{245}$
- $C_{14}H_{19}ON_3$ 1) 3-Phenylsemicarbazon-1-Methylhexahydrobenzol. Sm. 169-1700 (B. 37, 3181 C. 1904 [2] 991).
 - 2) 4 Dimethylamido 3 Keto 5 Methyl-1 Aethyl-2-Phenyl-2, 3-Dihydropyrazol. Sm. 107° (C. 1897 [1] 1140).
 - 3) 4-Methyläthylamido-3-Keto-1,5-Dimethyl-2-Phenyl-2,3-Dihydropyrazol. Sm. 92° (D.R.P. 145603 C. 1903 [2] 1225).
- C₁₄H₁₉O₂N 17) 5-Oxy-3-Methyl-1-Hexylbenzoxazol. Sm. 99° (B. 37, 3109 C. 1904 [2] 994).

 $C_{14}H_{20}O_7N_4$

18) Phenylamidoformiat d. Oxymethylhexahydrobenzol. Sm. 820 (C. r. $C_{14}H_{19}O_{2}N$ 137, 61 C. 1903 [2] 551).

19) Phenylamidoformiat d. 1-Oxy-1-Methylhexahydrobenzol. Sm. 1050

(C. r. 138, 1324 C. 1904 [2] 219). 20) Phenylamidoformiat d. 2-Oxy-1-Methylhexahydrobenzol. Sm. 103 bis 104° (A. 329, 375 C. 1904 [1] 517).

3) 4-Nitrophenylhydrazondimethylhexahydrobenzol. Sm. 1680 (B. 36. $C_{14}H_{19}O_{2}N_{3}$ 957 C. 1903 [1] 1022).

4) 3 - Diäthylamido - 4, 5 - Diketo - 3 - Methyl-1 - Phenyl-4, 5 - Dihydropyrazol. Sm. 66,5-67°. Pikrat (B. 36, 1452 C. 1903 [1] 1361).

 $C_{14}H_{19}O_{3}N$ *18) 4-Methylphenylmonamid d. mal. Pentan- $\beta\delta$ -Dicarbonsäure. Sm. 176–177° (Bl. [3] 29, 1019 C. 1903 [2] 1315). 32) 4-Methylphenylmonamid d. cis- β -Methylbutan- $\alpha\gamma$ -Dicarbonsäure.

Sm. 117—118° (C. r. 136, 243 C. 1903 [1] 565). C 55,1 — H 6,2 — O 15,7 — N 23,0 — M. G. 305.

 $C_{14}H_{19}O_{8}N_{5}$ 1) Isopropylidenhydrazid d. β -Phenylureïdoacetylamidoessigsäure. Sm. 234° u. Zers. (J. pr. [2] 70, 256 C. 1904 [2] 1464).

16) Diäthylester d. 2-Methylphenylamidomalonsäure. Fl. HCl (Am. 30, $C_{14}H_{19}O_4N$ 135 C. 1903 [2] 720). 17) Diäthylester d. 3-Methylphenylamidomalonsäure. Sm. 50,5-51°

(Am. 30, 138 C. 1903 [2] 721).

C14H19O4N3

säure. Sm. 205° (J. pr. [2] 70, 120 C. 1904 [2] 1037).

C14H19O4N5 C 52,3 - H 5,9 - O 19,9 - N 21,8 - M. G. 321.

1) 8-Dipropionylamido-2, 6-Diketo-1, 3, 7-Trimethylpurin. (D.R.P. 139960 C. 1903 [1] 859).

C 49.8 - H 5.6 - O 23.7 - N 20.8 - M. G. 337. $C_{14}H_{19}O_5N_5$

1) Semicarbazon d. Glyazindihydrotetramethyldimalonsäuremethylester-s-Lakton. Sm. 230° (Soc. 83, 1258 C. 1903 [2] 1423).

C₁₄H₂₀O₂N₂ *2) 2, 5-Di[Acetylamido]-4-Isopropyl-1-Methylbenzol. (A. 336, 22 C. 1904 [2] 1467). 10) s-Caproyl-2-Methylphenylharnstoff. Sm. 99-100° (Soc. 85, 810

C. 1904 [2] 201, 520).

11) s-Caproyl-4-Methylphenylharnstoff. Sm. 131-132° (Soc. 85, 810 C. 1904 [2] 201, 520).

12) 2-Acetylamido-l-Oxy-?-Piperidylmethylbenzol. Sm. 820 (D.R.P.

92309). — *IV, 15.
13) 4-Acetylamido-l-Oxy-P-Piperidylmethylbenzol. Sm. 159° (D.R.P. 92309). - *IV, 15.

 $C_{14}H_{20}O_4N_2$ 16) Diäthylester d. 1,3-Phenylendi [Methylamidoameisensäure]. Sm. 160° (B. 36, 1682 C. 1903 [2] 30).

17) Diacetat d. β-d-Campherdioxim. Sm. 119 ° (Soc. 85, 910 C. 1904 [2] 598).

C 46,1 — H 5,5 — O 17,6 — N 30,8 — M. G. 364. 1) Diacetylporphyrindin. Sm. 170° u. Zers. (B. 36, 1302 C. 1903 [1] $C_{14}H_{20}O_4N_8$ 1256).

 $C_{14}H_{20}O_6N_2$ *1) Diäthylester d. δs -Diimido- $\beta \eta$ -Diketooktan- $\gamma \zeta$ -Dicarbonsäure (D. d. Dicyandiacetessigsäure). Sm. 132° (A. 332, 138 C. 1904 [2] 190). 2) Diathylester d. isom. Dicyandiacetessigsäure. Sm. 132,50 (A. 332,

139 C. 1904 [2] 190).
3) Diäthylester d. $\beta\gamma$ -Diimido- δ -Acetyl-s-Ketohexan- $\alpha\alpha$ -Dicarbonsäure. Sm. 141—142° (A. 332, 148 C. 1904 [2] 191). C 47,2 — H 5,6 — O 31,5 — N 15,7 — M. G. 356.

1) Diäthylester d. Acetylbisdiazoacetessigsäure. Sm. 140° (G. 34 [1] 192 C. 1904 [1] 1333).

 $C_{14}H_{20}O_8N_2$ *1) Dimethylester Glyoximperoxyddihydrotetramethyldimalonsäure. Sm. 154° (Soc. 83, 1260 C. 1903 [2] 1423).

*2) Dimethylester d. δε-Dioximido-γζ-Diketo-βη-Dimethyloktan-βη-Dicarbonsäure. Sm. 177° (Soc. 83, 1261 C. 1903 [2] 1423).
1) Chlorallylat d. 1-Aethyl-1,2,3,4-Tetrahydrochinolin. 2 + PtOl₄ C14H20NCl (B. 35, 3909 C. 1903 [1] 36).

- $C_{14}H_{20}NJ$ 3) Methyläthylallyl-4-Methylphenylammoniumjodid (Ph. Ch. 45, 239 C. 1903 [2] 979). 4) Jodallylat d. 1-Aethyl-1, 2, 3, 4-Tetrahydrochinolin. Zers. bei 119—120° (B. 35, 3909 C. 1903 [1] 36).
 5) d-sec. Butylamid d. 1, 2, 3, 4-Tetrahydrochinolin-1-Thiocarbonsäure. Sm. 40° (Ar. 242, 62 C. 1904 [1] 998). $C_{14}H_{20}N_2S$ 6) d-sec. Butylamid d. 1,2,3,4-Tetrahydroisochinolin-2-Thiocarbon- d-sec. Butylamid d. 1, 2, 3, 4-Tetranydroiscommonn-2-1110001501 säure. Sm. 117° (Ar. 242, 62 C. 1904 [1] 998).
 Jodmethylat d. 3-Methylimido-1, 4, 5-Trimethyl-2-Phenyl-2, 3-Dihydropyrazol. Sm. 130° (B. 36, 3289 C. 1903 [2] 1191).
 O-Propylcyancampher (C. r. 136, 789 C. 1903 [1] 1085).
 Cyanpropylcampher. Sm. 46°; Sd. 140-150°₂₀ (B. 24 [2] 733). C14H20N2J C14H21ON - III, 513. 24) 3,4,4,6-Tetramethyl-2-Phenyltetrahydro-1,3-Oxazin. Sd. 267 bis 270°_{747} . (2HCl, PtCl₄), (HCl, AuCl₃) (M. 25, 863 C. 1904 [2] 1241). C₁₄H₂₁O₂N *19) Aethyläther d. 6-Acetylamido-3-Oxy-4-Isopropyl-1-Methylbenzol. Sm. 135° (B. 36, 2891 C. 1903 [2] 875). 22) 4-Oximido-1-Kéto-2,5-Dipseudobutyl-1,4-Dihydrobenzol. Sm. 2090 (Bl. [3] 31, 971 C. 1904 [2] 1113).
 23) 2-Methylphenylester d. Dipropylamidoameisensäure.
 (Bl. [3] 31, 20 C. 1904 [1] 508). 24) 4-Methylphenylester d. Dipropylamidoameisensäure. Sd. 185% (Bl. [3] 31, 21 C. 1904 [1] 508). 25) Benzoat d. α -Dimethylamido- β -Oxy- β -Methylbutan. HCl (C. r. 138. 767 C. 1904 [1] 1196).
 *5) 4-Diäthylamidoacetat d. 3,4-Dioxy-l-Methylbenzol-3-Methyläther. C14H21O8N Fl. HCl, (2HCl, PtCl₄), HJ (Ar. 240, 639 C. 1903 [1] 24).
 9) 2-Methoxylphenylester d. Dipropylamidoameisensäure. Sd. 196°₁₈ 2-Methoxylphenylester a. Dipropylamidoameisensaure. Sd. 190° 18
 (Bl. [3] 31, 21 C. 1904 [1] 508).
 C 60,2 — H 7,5 — O 17,2 — N 15,1 — M. G. 279.
 1) α-[β-Phenylhydrazido]-α-Diäthylamidoäthan-α-Ketocarbonsäure.
 (4 + 3HCl, AuCl₃) (B. 36, 1455 C. 1903 [1] 1361).
 *4) Diäthylester d. Dihydrocollidindicarbonsäure. Sm. 131° (A. 332, 100 and 11) 1565. $C_{14}H_{21}O_8N_3$ $C_{14}H_{21}O_4N$ 19 C. 1904 [1] 1565). 4) 2,5-Dimethyläther-3-Propyläther d. 4-Nitro-2,3,5-Trioxy-1-Propylbenzol. Sm. 68° (B. 36, 1720 C. 1903 [2] 114). C14H21O5N 6) α-Oxyheptyl-4-Methylphenylsulfon (Am. 31, 166 C. 1904 [1] 875). C14H22O8S 7) 2-Isoamyl-1,3,5-Trimethylbenzol-4-Sulfonsäure. Fl. (B. 37, 1720 C. 1904 [1] 1489). C 49,7 — H 6,5 — O 18,9 — N 24,9 — M. G. 338. $C_{14}H_{22}O_4N_6$ 1) 2,4,2',4'-Tetraketo-5,5,5',5'-Tetramethyl-3,3'-Diäthyloktohydro-1,1'-Azoimidazol. Sm. 234° u. Zers. (C. 1904 [2] 1029).
 1) 1,3-Di[Butylsulfon]benzol. Fl. (J. pr. [2] 68, 321 C. 1903 [2] 1170). C 56,4 — H 7,4 — O 20,8 — N 9,4 — M. G. 298. $C_{14}H_{22}O_4S_2$ C14H22O5N 1) Aethylester d. 6-Keto-2, 4-Dioxy-5-Cyan-2-Methyl-5-Aethylhexahydropyridin-4-Aethyläther-3-Carbonsäure. Sm. 1980 (G. 33 [2] 167 *C.* 1903 [2] 1283). C₁₄H₂₂O₅Hg₂ 1) Verbindung (aus Camphen). Sm. 188—189 (B. 36, 3576 C. 1903 [2] 1362). C14H22O8S2 1) Tetraäthylester d. Dimethyldisulfid- $\alpha \alpha \beta \beta$ -Tetracarbonsäure. Sm. 131° (B. 36, 3725 C. 1903 [2] 1416). C₁₄H₂₂O₁₁Hg₄ 1) Verbindung (aus Aceton u. Merkuriacetat). Sm. 157° (B. 36, 3703 C. 1903 [2] 1239). *4) Semicarbazon d. α -Jonon. + NaHSO₃ (C. 1904 [1] 280). *5) Semicarbazon d. β -Jonon. NaHSO₃ + 4H₂O (C. 1904 [1] 281). 9) Semicarbazon d. Allylcampher. Sm. 180° (C. r. 136, 792 C. 1903 $C_{14}H_{28}ON_3$ [1] 1086). Semicarbazon d. Camphenilidenaceton. Sm. 178—179° (D.R.P. 138211 C. 1903 [1] 269).
- 138211 C. 1905 [1] 209).

 2) Diäthylester d. β -Amido- γ -Acetyl- δ -Methyl- β -Penten- ϵs -Dicarbonsäure. Sm. 75° (B. 36, 2190 C. 1903 [2] 569).

 2) Thiosemicarbazon d. Iron. Sm. 181° (C. 1904 [1] 281).

 3) Thiosemicarbazon d. α -Jonon. Sm. 121° (C. 1904 [1] 281).

 4) Thiosemicarbazon d. β -Jonon. Sm. 158° (C. 1904 [1] 281). C14H23O5N.
- $C_{14}H_{28}N_8S$

C14H24O3N2 2) 2,4,6-Triketo-5,5-Diisoamylhexahydro-1,3-Diazin. Sm. 172° (D.R.P. 146496 C. 1903 [2] 1484; A. 335, 347 C. 1904 [2] 1381).
3) Azin d. Methylacetessigsäureäthylester. Fl. (B. 37, 2831 C. 1904 $C_{14}H_{24}O_4N_2$ [2] 642). 4) Piperidid d. d-Weinsäure. Sm. 189-190° (Soc. 83, 1348 C. 1904) [1] 83). $C_{14}H_{25}O_{2}N$ *2) Menthylester d. β-Amidopropen-α-Carbonsäure. Sm. 88-89° (Soc. 81, 1505 C. 1903 [1] 138). C 62,9 — H 9,4 — O 12,0 — N 15,7 — M. G. 267.

1) Semicarbazon d. Pseudojononhydrat. Sm. 144° (D.R.P. 143724) $C_{14}H_{25}O_2N_3$ C. 1903 [2] 474). C 59.4 - H 8.8 - O 17.0 - N 14.8 - M. G. 283. $C_{14}H_{25}O_3N_3$ 1) r-Rhodinolester d. α-Semicarbazonpropionsäure. Sm. 112° (C. r. 138, 1701 C. 1904 [2] 440). C14H26ON *3) Pulegennitrolpiperidid. Sm. 106-107° (A. 327, 132 C. 1903 [1] 1412). *1) Methylester d. αα-Dipiperidyloxyessigmethyläthersäure. Sd. 106 bis 109°₁₅ (Soc. 85, 987 C. 1904 [2] 830).
4) Propylester d. 1-Menthylamidoameisensäure. Sm. 57° (Soc. 85, 690 $\mathbf{C}_{14}\mathbf{H}_{26}\mathbf{O}_{3}\mathbf{N}_{2}$ C14 H27 O2 N C. 1904 [2] 332). $C_{14}H_{27}O_{2}Cl$ 1) β -Chlorathylester d. Laurinsäure. Sm. 24°; Sd. 100° (B. 36, 4341 C. **1904** [1] 433). C14H27O2Br 3) β -Bromäthylester d. Laurinsäure. Sm. 36°; Sd. 124° (B. 36, 4341 C. 1904 [1] 433). C14H27O8N8 2) $\beta\zeta$ -Dimethyloktylester d. α -Semicarbazonpropionsäure. Sm. 124° (C. r. 138, 985 C. 1904 [1] 1398). 3) Caprylat d. β -Semicarbazon- α -Oxypropan. Sm. 104—105° (C_{i} , r. 138. 1275 C. 1904 [2] 93). 2) Thiolmyristinsäure. Sm. 25°. Na (C. r. 136, 555 C. 1903 [1] 816). $C_{14}H_{28}OS$ 2) Di[α -Oxymethyl- γ -Methylbutylamid] d. Oxalsäure. Sm. (9)-1000 C14H28O4N2 (C. 1902 [1] 400). C₁₄H₂₈O₁₂N₂ *1) Oxamid d. Glukamin + 1\(\frac{1}{2}\)H₂O. Sm. 178\(\frac{0}{2}\) (C. 1904 [1] 431).
2) isom. D''' \(\frac{1}{2}\)-Porthoxyllen; lamid' d. Oxalsäure (Oxamid d. Maunamin).
3) \(\frac{1}{2}\)-1 \(\frac{1}\)-1 \(\frac{1}{2}\)-1 \(\frac{1}{2}\)-1 \(\frac{1}{2}\)-1 \ 1) β -Semicarbazontridekan. Sm. 123° (*Bl.* [3] 29, 1130 *C.* 1904 [1] 258). C 64,9 — H 11,2 — O 18,5 — N 5,4 — M. G. 259. 1) Nitrat d. α -Oxytetradekan. Sd. 175—180°₁₂ (*C. r.* 136, 1563 *C.* 1903 C14H29O8N 21 338). 1) $\beta \zeta \zeta$ -Triäthylsulfon- β -Methylheptan (B. 37, 508 C. 1904 [1] 883). - 14 IV -

C14H30O6S8 $C_{14}H_4O_6N_2Cl_2$ 1) 4, 8-Dichlor-1, 5-Dinitro-9, 10-Anthrachinon (D.R.P. 137782 C. 1903 [1] 108). 2) 4, 5-Dichlor-1, 8-Dinitro-9, 10-Anthrachinon (D.R.P. 137782 C. 1903 [1] 108). 2) 4, 8-Dibrom-1, 5-Dinitro-9, 10-Anthrachinon (D.R.P. 137782 C₁₄H₄O₆N₂Br₂ C. 1903 [1] 108). 1) P-Dibromdinitro-1, 3, 5, 7-Tetraoxy-9, 10-Anthrachinon (1). R. P. $C_{14}H_4O_{10}N_2Br_2$ 97287 C. 1898 [2] 689). — *III, 313.
2) P-Tetrabrom-1, 4-Diamido-9, 10-Anthrachinon. Sm. noch nicht $C_{14}H_6O_2N_2Br_4$ bei 300° (D.R.P. 137783 C. 1903 [1] 112). 3) 2,4,6,8-Tetrabrom-1,5-Diamido-9,10-Anthrachinon (I). R.P. 148109 C. 1904 [1] 230; B. 37, 4183 C. 1904 [2] 1741). 1) 4-Chlor-I-Nitro-9,10-Anthrachinon (D.R.P. 137782 C. 1903 [1] C₁₄H₃O₄NCl 108). $C_{14}H_6O_4NBr$ 2) 4-Brom-l-Nitro-9,10-Anthrachinon (D.R.P. 137782 C. 1903 [1] 108). 1) 2,4-Dibrom-5-Nitro-1-Amido-9,10-Anthrachinon (D. R.P. 151512 $C_{14}H_6O_4N_2Br_2$

1) 2 - Brom - 4 - Nitro - 1 - Oxy - 9, 10 - Anthrachinon (D.R.P. 127439)

C. 1904 [1] 1677).

C. 1902 [1] 1032). — *III, 300.

 $C_{14}H_6O_5NBr$

	— 335 — 14 IV.
$\mathbf{C_{14}H_6O_6N_2Cl_2}$	1) Chlorid d. 4,4'-Dinitrobiphenyl-2,2'-Dicarbonsäure. Sm. 138° (B. 36, 3744 C. 1904 [1] 37).
$\mathbf{C_{14}H_6O_6N_4Br_2}$	1) 2,6-Dibrom-4,8-Dinitro-1,5-Diamido-9,10-Anthrachinon. Sm. oberh. 360° (D.R.P. 148109 C. 1904 [1] 230).
$\mathbf{C_{14}H_0O_{11}N_2S}$	1) 4, 8 - Diamido - 1, 5 - Dioxy - 9, 10 - Anthrachinon - P - Sulfonsäure (D. R. P. 152013 C. 1904 [2] 378).
$\mathbf{C_{14}H_6O_{12}Cl_2S_2}$	1) 4,8-Dichlor-1,3,5,7-Tetraoxy-9,10-Anthrachinon-2,6-Disulfon- säure (D. R. P. 99078 C. 1898 [2] 1152). — *III, 313.
$\mathbf{C_{14}H_6O_{14}N_2S_2}$	3) 4, 5-Dinitro - 1, 8 - Dioxy - 9, 10 - Anthrachinon - P - Disulfonsäure (D.R.P. 100136, 101805, 115858, 119228, 119229). — *III, 308. 4) P-Dinitro-2, 7-Dioxy - 9, 10 - Anthrachinon - P - Disulfonsäure (D.R.P.
$C_{14}H_7ONBr_2$	99612 C. 1899 [1] 400). — *III, 309. 1) 2,7-Dibrom-9-Imido-10-Keto-9,10-Dihydrophenanthren.Sm.231
$egin{aligned} \mathbf{C_{14}H_7ONS_2} \\ \mathbf{C_{14}H_7ON_2Cl} \end{aligned}$	bis 232° u. Zers. (B. 37, 3570 C. 1904 [2] 1403). 1) Indophtenin (B. 37, 3350 C. 1904 [2] 1058). 1) Chloreumarophenazin. Sm. 149—150° (B. 35, 4335 C. 1903 [1]
$\mathrm{C}_{14}\mathrm{H}_7\mathrm{O}_2\mathrm{NCl}_2$	293). 3) Phenylimid d. 3,5-Dichlorbenzol-1,2-Dicarbonsäure. Sm. 150
$\mathbf{C_{14}H_7O_2NBr_2}$	bis 150,5° (Soc. 81, 1537 C. 1903 [1] 140). 3) 2,4-Dibrom-1-Amido-9,10-Anthrachinon. Sm. 221° (C. 1904 [2] 340).
	4) 2, 7 - Dibrom - 9 - Oximido - 10 - Keto-9, 10 - Dihydrophenanthren. Sm. 229—230° u. Zers. (B. 37, 3570 C. 1904 [2] 1403).
$\mathbf{C_{14}^{-1}H_7O_2N_2Cl}$	1) 9,10-Anthrachinon-2-Diazoniumchlorid (B. 37, 62 C. 1904 [1] 520).
$\mathbf{C_{14}H_7O_2N_2Br_3}$	1) 9,10-Anthrachinon-2-Diazoniumtribromid (B. 37, 62 C. 1904 [1] 520).
$\mathbf{C_{14}H_7O_2N_5Cl_6}$	1) μα-Di[2,4,6-Trichlorphenylazo]-α-Nitroäthan. Sm. 97,5° u. Zers. (B. 36, 3834 C. 1904 [1] 19).
$\mathrm{C_{14}H_7O_2N_5Br_6}$	1) αα-Di[2,4,6-Tribromphenylazo]-α-Nitroäthan. Sm. 98° u. Zers. (B. 36, 3835 C. 1904 [1] 19).
$C_{14}H_7O_5BrS$	1) 2-Brom-9,10-Phenanthrenchinon-P-Sulfonsäure (B. 37, 3564 C. 1904 [2] 1402).
$C_{14}H_7O_7NS$	 3) 1-Nitro-9,10-Anthrachinon-5-Sulfonsäure (B. 37, 71 C. 1904 [1] 666). 4) 1-Nitro-9,10-Anthrachinon-8-Sulfonsäure (B. 37, 71 C. 1904 [1]
G TT 0 TIG	666). 1) 2-Brom-9,10-Phenanthrenchinon-?-Disulfonsäure (B. 37, 3565)
C ₁₄ H ₇ O ₈ BrS ₂	 7. 2-Brom-9, 10-Phenanthrenenhon-r-Distribusative (B. 67, 3868) 7. 1904 [2] 1402). 1) 2[oder 7]-Brom-10-Imido-9-Keto-9, 10-Dihydrophenanthren.
C ₁₄ H ₈ ONBr	Sm. 169° u. Zers. (B. 37, 3561 C. 1904 [2] 1401). 4) 2,5-Di[3-Chlorphenyl]-1,3,4-Oxdiazol. Sm. 144°. + AgNO ₈
$C_{14}H_8ON_2Cl_2$	$(J. \ nr. \ [2] \ 69, \ 382 \ C. \ 1904 \ [2] \ 535).$
$\mathbf{C_{14}H_8ON_2Br_2}$	1) 2,5-Di[2-Bromphenyl]-1,3,4-Oxdiazol. Sm. 108°; Sd. 240—250° ₁₈ (J. pr. [2] 69, 476 C. 1904 [2] 536).
	2) 2,5-Di[3-Bromphenyl]-1,3,4-Oxdiazol. Sm. 179° (J. pr. [2] 69, 478 (J. 1904 [2] 536). 3) 2,5-Di[4-Bromphenyl]-1,3,4-Oxdiazol. Sm. 249° (J. pr. [2] 69,
G TT 0 3TO	3) 2,5-Di[4-Bromphenyl]-1,3,4-Oxdiazol. Sm. 249° (<i>J. pr.</i> [2] 69, 480 <i>C.</i> 1904 [2] 536). 3) 3-Chlor-2-Amido-9,10-Anthrachinon. Sm. 280—283° (D.R.P.
$C_{14}H_8O_2NCl$	148110 C. 1904 [1] 329). 4) ?-Chlor-2-Amido-9,10-Anthrachinon (D.R.P. 138134 C. 1903
C II O NP»	[1] 209). *1) 9-Brom-10-Nitrophenanthren. Sm. 206—207° (B. 37, 3573
$\mathrm{C_{14}H_{8}O_{2}NBr}$	C. 1904 [2] 1403). 3) 3-Brom-2-Amido-9,10-Anthrachinon. Sm. 267—270° (D.R.P.
	148110 C. 1904 [1] 329). 4) P-Brom-2-Amido-9,10-Anthrachinon (D.R.P. 138134 C. 1903
	[1] 209). 5) 2[oder 7]-Brom-9-Oximido-10-Keto-9,10-Dihydrophenanthren.
	Sm. 163-164° (B. 37, 3560 C. 1904 [2] 1401). 6) 3[oder 6]-Brom-9-Oximido-10-Keto-9,10-Dihydrophenanthren.
	Sm. 198° (B. 37, 3572 C. 1904 [2] 1403). 7) Bromisopyrophtalon. Sm. 153° (B. 36, 1661 C. 1903 [2] 40).

$\mathrm{C_{14}H_8O_2N_2Br_2}$	*2) 2,6-Dibrom-1,5-Diamido-9,10-Anthrachinon. Sin. 274° (B. 37, 4181 C. 1904 [2] 1741).
$\mathrm{C_{14}H_8O_2Cl_4Br_2}$	1) $\alpha\beta$ -Dibrom- $\alpha\beta$ -Di[3,5-Dichlor-4-Oxyphenyl]äthan. Sm. 248° u. Zers. (A. 325, 53 C. 1903 [1] 462).
$\mathrm{C_{14}H_8O_8NBr}$	2) 10-Brom-10-Nitro-9-Keto-9,10-Dihydroanthracen. Zers. bei 116° (A. 330 181 C. 1904 [1] 891).
$\mathbf{C_{14}H_8O_3N_5Cl}$	1) Verbindung (aus 1,5-Bisdiazo-9,10-Anthrachinon) (B. 35, 3926
$\mathrm{C_{14}H_{3}O_{4}N_{2}Cl_{2}}$	C. 1903 [1] 88). *2) trans- $\alpha\beta$ -Di[2-Chlor-4-Nitrophenyl]äthen. Sm. 302° (Soc. 85,
	 1437 C. 1904 [2] 1740). 3) cis-αβ-Di[2-Chlor-4-Nitrophenyl]äthen. Sm. 172-173° (Soc. 85,
$C_{14}H_8O_5NC1$	1437 C. 1904 [2] 1740). 1) 2-[4-Chlor-3-Nitrobenzoyl]benzol-1-Carbonsäure. Sm. 202—204°
C ₁₄ H ₈ O ₆ N ₃ Cl ₃	(D.R.P. 148110 C. 1904 [1] 329). 1) Acetat d. 2, 3, 5-oder-2, 3, 6-Trichlor-2', 4'-Dinitro-4-Oxy-
	diphenylamin. Sm. 153° (B. 36, 3269 C. 1903 [2] 1126).
$C_{14}H_8O_8N_4Cl_2$	1) Acetat d. 3,5-Dichlor-2, 2', 4'-Trinitro-4-Oxydiphenylamin, Sm. 177,5° (B. 37, 1730 C. 1904 [1] 1521).
	2) Acetat d. 3,5-Dichlor-2', 4', 6'-Trinitro-4-Oxydiphenylamin. Sm. 259° (B. 37, 1730 C. 1904 [1] 1521).
$C_{14}H_8N_2Cl_2S$	1) 2,5-Di[3-Chlorphenyl]-1,3,4-Thiodiazol. Sm. 151° (J. pr. [2] 69, 383 C. 1904 [2] 536).
$\mathrm{C_{14}H_8N_2Br_2S}$	1) 2,5-Di[2-Bromphenyl]-1,3,4-Thiodiazol. Sm. 117° (<i>J. pr.</i> [2] 69, 477 <i>C.</i> 1904 [2] 536).
	2) 2,5-Di[3-Bromphenyl]-1,3,4-Thiodiazol. Sm. 175° (<i>J. pr.</i> [2] 69, 478 <i>C.</i> 1904 [2] 536).
	3) 2,5-Di[4-Bromphenyl]-1,3,4-Thiodiazol. Sm. 2370 (L nr. [2] 69
$\mathbf{C_{14}H_9O_2NBr_2}$	480 C. 1904 [2] 536). 1) 9,10-Dibrom-9-Nitro-9,10-Dihydrophenanthren. Sm. 81—82°
$\mathbf{C_{14}H_9O_2N_2CI}$	(B. 37, 3576 C. 1904 [2] 1404). 1) 6-oder-7-Chlor-3-Oxy-2-[2-Oxyphenyl]-1,4-Benzdiazin. Sm.
$\mathbf{C_{14}H_{9}O_{5}NS}$	286—287° (B. 35, 4334 C. 1903 [1] 293). 5) 1-Amido-9,10-Anthrachinon-5-Sulfonsäure (B. 37, 71 C. 1904
	[1] 666). 6) 1-Amido-9, 10-Anthrachinon-7-Sulfonsäure (D. R. P. 105634
	C. 1900 [1] 381; B. 37, 69 Anm. C. 1904 [1] 666). 7) 1-Amido-9,10-Anthrachinon-8-Sulfonsäure (B. 37, 71 C. 1904
C ₁₄ H ₉ O ₆ NS	[1] 000).
0 ₁₄ 11 ₉ 0 ₆ 1415	6) isom. 2-Amidooxy-9,10-Anthrachinonsulfonsäure (D.R.P. 105634 C. 1900 [1] 381). — *III, 301.
	7) 4-Amido-1-Oxy-9, 10-Anthrachinon-7-Sulfonsäure (D. R. P. 101919; D. R. P. 155440 C. 1904 [2] 1356).
$\mathrm{C}_{14}\mathrm{H}_9\mathrm{O}_6\mathrm{N}_3\mathrm{Cl}_2$	1) Acetylderivat d. 3,5-Dichlor-2',4'-Dinitro-4-Oxydiphenylamin. Sm. 207—208° (B. 36, 3264 C. 1903 [2] 1126).
$\mathrm{C_{14}H_9O_8N_4CI}$	1) Acetat d. 5-Chlor-2,2',4'-Trinitro-4-Oxydinhenylamin Sm
	177,5—178° (B. 37, 1728 C. 1904 [1] 1520). 2) Acetat d. 5-Chlor-3, 2', 4'-Trinitro-4-Oxydiphenylamin. Sm.
	188,5° (B. 37, 1729 C. 1904 [1] 1521). 3) Acetat d. 3-Chlor-2', 4', 6'-Trinitro-4-Oxydiphenylamin. Sm. 173° (B. 37, 1739 C. 1904 [1] 1520).
	4) Acetet d 2 Chlor 2' 4' 2 Marinitary 4 0 2 2 3
C ₁₄ H ₁₀ ON ₂ S	154,5° (B. 37, 1729 (J. 1904 []] [52]).
14 10 - 11 2.5	*3) 2-Thiocarbonyl-4-Keto-3-Phenyl-1,2,3,4-Tetrahydro-1,3-Benzdiazin. Sm. oberh. 300° (Bl. [3] 31, 882 C. 1904 [2] 672).
	C. 1903 [2] 1071). — IV. 682.
	7) Phenylamid d. Benzthiazol-I-Carbonsäure. Sm. 160° (B. 37, 3729 C. 1904 [2] 1450).
$C_{14}H_{10}ON_8C1$	2) 6-oder-7-Chlor-3-Oxy-2-[2-Amidonhenyll-1 4 Panadiasis
	Sm. 264° (B. 35, 4332 C. 1903 [1] 292). 3) isom. 6-oder-7-Chlor-3-0xy-2-[2-Amidophenyl]-1,4-Benzdiazin. Sm. 239-240° (B. 35, 4322 (1.1002 fill 200).
$\mathrm{C_{14}H_{10}ON_{8}Br}$	2) 3-0xy-2-[3-Brom-2-Amidophenyl]-[4-Bengdiagin (S., 210, 250)
	(B. 35, 4833 C. 1903 [1] 292).

*3) Chlorimid d. Benzolcarbonsäure. Sm. 86° (89°) (Am. 30, 420 C. 1904 [1] 241; C. 1904 [1] 803).
4) Methyläther d. Verb. C₁₃H₈O₂NCl. Sm. 144° (Bl. [3] 31, 532 C₁₄H₁₀O₂NCl C. 1904 [1] 1598). 5) Verbindung (aus α-Pikolin u. Phtalylchlorid). HCl (B. 36, 1658 C. 1903 [2] 40). $C_{14}H_{10}O_2N_2Br_2$ *2) $\alpha\beta$ -Di[3-Brombenzoyl]hydrazin. Sm. 265° (J. pr. [2] 69, 477 C. 1904 [2] 536). *5) $\alpha \beta$ -Di[4-Brombenzoyl]hydrazin. Sm. 300° u. Zers. (J. pr. [2] 69, 479 C. 1904 [2] 536). 6) $\alpha\beta$ -Di[2-Brombenzoyl]hydrazin. Sm. 245° (J. pr. [2] 69, 475 C. 1904 [2] 536). 1) 2,6-Dibrom-1,4,5,8-Tetraamido-9,10-Anthrachinon (D.R.P. C14H10O2N4Br2 148 109 C. 1904 [1] 230). 7) 2-[4-Chlor-3-Amidobenzoyl]benzol-1-Carbonsäure. Sm. 175 bis $C_{14}H_{10}O_8NC1$ 176° (D.R.P. 148110 C. 1904 [1] 329).

C₁₄H₁₀O₃N₂Br₄ *1) Dimethyläther d. 3,5,3',5'-Tetrabrom-4,4'-Dioxyazoxybenzol.
Sm. 214° (Am. 30, 61 C. 1903 [2] 354). 2) trans- $\beta\beta\gamma\gamma$ -Tetrabrom- α -Keto- γ -[2-Nitrophenyl]- α -[2-Pyridyl]-propan. Sm. 120° (B. 35, 4066 C. 1903 [1] 92). $C_{14}H_{10}O_3N_2S_3$ 1) 4-Sulfophenylamid d. Benzthiazol-1-Thiocarbonsäure. Na (B. 37, 3728 C. 1904 [2] 1450). 1) Phenylester d. 4-Chlorformoxylphenylamidoameisensäure. Sm. $C_{14}H_{10}O_4NC1$ 143—144° (J. pr. [2] 67, 340 C. 1903 [1] 1339). 1) 4-Sulfophenylamid d. Benzthiazol-l-Carbonsäure. Na (B. 37, $C_{14}H_{10}O_4N_2S_2$ 3730 C. 1904 [2] 1450). 1) Dimethylester d. 3, 3'-Dibrom-2, 2'-Diketo-1, 2, 1', 2'-Tetrahydro- $C_{14}H_{10}O_6N_2Br_2$ 1,1'-Bipyridyl-5,5'-Dicarbonsäure. Sm. 344° (B. 37, 3840 C. 1904 [2] 1616). 1) 4,8-Diimido-1,5-Diketo-1,4,5,8-Tetrahydro-9,10-Anthrachinon-C14H10O6N2S2 2,6-Disulfonsäure (D.R.P. 113724 C. 1900 [2] 831). — *III, 307. 2) 4,4'-Azo- $\alpha\beta$ -Diphenyläthen-2,2'-Disulfonsäure (C. 1903 [1] 1414). 1) Acetat d. 2-Chlor-2',4'-Dinitro-4-Oxydiphenylamin. Sm. 170° $C_{14}H_{10}O_6N_8C1$ (B. 36, 3266 C. 1903 [2] 1126).

2) Acetat d. 3-Chlor-2',4'-Dinitro-4-Oxydiphenylamin. Sm. 156° (B. 36, 3267 C. 1903 [2] 1126).

1) Acetat d. 2-Brom-2',4'-Dinitro-4-Oxydiphenylamin. Sm. 165 $C_{14}H_{10}O_6N_8Br$ bis 166° (B. 36, 3269 C. 1903 [2] 1126). 2) 2,4-Dinitro- $\alpha\beta$ -Diphenyläthen-P-Sulfonsäure. Sm. 70°; Zers. bei $C_{14}H_{10}O_7N_2S$ 112—120°. Na (B. 35, 4146 C. 1903 [1] 165). 3) 4,5-Diamido - 1,8-Dioxy - 9,10-Anthrachinon - 2-Sulfonsäure (D.R.P. 117893 C. 1901 [1] 550; D.R.P. 119228 C. 1901 [1] 807).

- *III, 308. *1) 4,4'-Azoxy- $\alpha\beta$ -Diphenyläthen-2,2'-Disulfonsäure (C. 1903 [1] $C_{14}H_{10}O_7N_2S_2$ *1) $\alpha\beta$ -Di[4-Nitrophenyl]äthen-2,2'-Disulfonsäure (Soc. 85, 1427 $C_{14}H_{10}O_{10}N_{2}S_{2}$ *C*. **1904** [2] 1739). 4) 2,4-Dinitro-αβ-Diphenyläthen-?-Disulfonsäure. Sm. 83-85° (125°). Ba + 4H₂O, Benzidinsalz (B. 35, 4147 C. 1903 [1] 165). 5) ?-Diamido-2,6-Dioxy-9,10-Anthrachinon-?-Disulfonsaure. K₂ (D.R.P. 99611 C. 1899 [1] 399). — *III, 309. 6) P-Diamido - 2, 7-Dioxy-9, 10-Anthrachinon-P-Disulfonsäure. K, (D.R.P. 99612). - *III, 309. 1) Dimethyläther d. 4, 6, 4', 6'-Tetranitro-2, 2'-Dioxydiphenylsulfid. $C_{14}H_{10}O_{10}N_4S$ Sm. 270° (R. 23, 114 C. 1904 [2] 205).
2) Dimethyläther d. 4, 6, 4', 6'-Tetranitro-3, 3'-Dioxydiphenylsulfid.

Sm. 204° (R. 23, 122 C. 1904 [2] 206). 1) Dimethyläther d. 4,6,4',6'-Tetranitro-3,3'-Dioxydiphenyldi-

sulfid. Sm. 236° u. Zers. (R. 23, 123 C. 1904 [2] 206). $C_{14}H_{10}O_{12}N_{2}S_{2}$ *1) 4,8-Diamido-1,3,5,7-Tetraoxy-9,10-Anthrachinon-2,6-Disulfonsäure (C. 1903 [2] 1130).

3) 4,8-Dihydroxylamido-1,5-Dioxy-9,10-Anthrachinon-2,6-Disulfonsäure (D.R.P. 100137 C. 1899 [1] 655). — *III, 307.

 $C_{14}H_{10}O_{10}N_4S_2$

4) 4,5-Dihydroxylamido-1,8-Dioxy-9,10-Anthrachinon-2,7-Di- $C_{14}H_{10}O_{12}N_2S_2$ sulfonsäure (D.R.P. 100137 C. 1899 [1] 655; D.R.P. 119229 C. 1901 [1] 867). — *III, 308. 1) Jodid d. 2, 3-Diphenyl-2, 3-Dihydro-1, 3,4-Thiodiazol-2, 5-Sulfid. $C_{14}H_{10}N_2J_2S_2$ Sm. 145° (J. pr. [2] 67, 221 C. 1903 [1] 1261). 1) Gem. Anhydrid d. Benzolcarbonsäure u. Phenylamidodithio-C14H,,ONS ameisensäure (N-Phenyl-S-Benzoyldithiourethan). Sm. 640 (B. 36, 3527 C. 1903 [2] 1326). Chlorid d. α-Phenyl-β-Benzylidenhydrazin-α-Carbonsäure. Sm. 101-102° (B. 36, 1358 C. 1903 [1] 1339). $C_{14}H_{11}ON_{2}Cl$ 2) 2,3,5,6-Tetrachlor-1,4-Benzochinon + Dimethylamidobenzol. C14H11O2NCl4 Sm. 105° (B. 37, 179 C. 1904 [1] 653). 3) Methyläther d. 2,6-Dibrom-4-Benzoylamido-1-Oxybenzol. Sm. $C_{14}H_{11}O_2NBr_2$ 180° (Soc. 81, 1480 C. 1903 [1] 23, 144). 10) 2-Methylphenyl-6 - Chlor - 3 - Nitrobenzylidenamin. Sm. 125" $\mathbf{C}_{14}\mathbf{H}_{11}\mathbf{O}_{2}\mathbf{N}_{2}\mathbf{C}\mathbf{l}$ (M. **25**, 370 C. **1904** [2] 322). 11) 4-Methylphenyl-6-Chlor-3-Nitrobenzylidenamin. Sm. 1330 (M. 25, 370 C. 1904 [2] 322). 12) s-Benzoyl-4-Chlorphenylharnstoff. Sm. 235-237" (Am. 30, 416) C. 1904 [1] 240). 3) 2-[3,5-Dibrom-2-Oxybenzyl]amidobenzol-1-Carbonsaure. Sm. $C_{14}H_{11}O_3NBr_2$ 175—178° (A. 332, 195 C. 1904 [2] 210). 4) 3-[3,5-Dibrom-2-Oxybenzyl]amidobenzol-1-Carbonsäure, Sm. 167° (A. 332, 196 C. 1904 [2] 210). 1) 3,4-Methylenäther d. 2-Thiocarbonyl-4-Keto-3-Allyl-5-3,4- $\mathbf{C}_{14}\mathbf{H}_{11}\mathbf{O}_{8}\mathbf{NS}_{2}$ Dioxybenzyliden]tetrahydrothiazol. Sm. 1510 (M. 24, 511 C. 1903 [2] 837). 3) Methylester d. 3-Brom-I-Benzylidenamido-2-Keto-1, 2-Dihydro- $C_{14}H_{11}O_{8}N_{2}Br$ pyridin-5-Carbonsäure. Sm. 173" (B. 37, 3838 C. 1904 [2] 1615). 2) Aethyläther d. 5-Phtalylamido-2-Merkapto-4-Keto-3,4-Di- $C_{14}H_{11}O_3N_3S$ hydro-1,3-Diazin. Sm. 230-231° (Am. 32, 142 ('. 1904 [2] 157). $C_{14}H_{11}O_4N_2Br$ 1) 2-Methylphenylamid d. 3-Brom-5-Nitro-2-Oxybenzol-1-Carbonsäure. Sm. 250° (G. 34 [1] 276 (J. 1904 [1] 1499). 2) 4-Methylphenylamid d. 3-Brom-5-Nitro-2-Oxybenzol-1-Carbonsäure. Sm. 256° u. Zers. (G. 34 [1] 276 C. 1904 [1] 1490). 1) 2,4,5,6-Tetrachlor-1,3-Dinitrobenzol - Dimethylamidobenzol. $C_{14}H_{11}O_4N_8Cl_4$ Sm. 113° (B. 37, 178 C. 1904 [1] 653). $\mathbf{C}_{14}\mathbf{H}_{11}\mathbf{O}_4\mathbf{N}_4\mathbf{Cl}_3$ *1) $\beta\beta\beta$ -Trichlor- $\alpha\alpha$ -Di[4-Nitrophenylamido|athan. Sm. 216° (('.1903) [1] 140). 2) $\beta \beta \beta$ -Trichlor- $\alpha \alpha$ -Di[2-Nitrophenylamido] β than. Sm. 171" (C. 1903) 1 140). 3) βββ-Trichlor-αα-Di[3-Nitrophenylamido]äthan. Sm.212°(C.1903 [1] 140). $C_{14}H_{11}O_4ClS$ 1) 1-[2-Methylphenyl]ester d. Benzol-1-Carbonsäure-2-Sulfonsäurechlorid. Sm. 112° (Am. 30, 309 C. 1903 [2] 1122). 1) Aethyläther d. ?-Dichlor-2', 4'-Dinitro-2-Oxydiphenylamin. Sm. 185—186° (B. 36, 3269 C. 1903 [2] 1127).

1) 2,4,6-Trichlor-1,3,5-Trinitrobenzol + Dimethylamidobenzol. C₁₄H₁₁O₅N₃Cl₂ C14H11O6N4Cl8 Sm. 78° (B. 37, 178 C. 1904 [1] 653). $\mathbf{C}_{14}\mathbf{H}_{11}\mathbf{O}_{6}\mathbf{N}_{4}\mathbf{Br}_{8}$ 1) 2,4,6-Tribrom-1,3,5-Trinitrobenzol + Dimethylamidobenzol. Zers. bei 50° (B. 37, 178 C. 1904 [1] 653). C₁₄H₁₂ONCl *21) 3-Chlor-2-Methylphenylamid d. Benzolcarbonsäure. Sm. 173° (B. 37, 1019 C. 1904 [1] 1202). 22) Methyläther d. α-Chlor-α-Phenylimido-α-|4-Oxyphenyl|methan. Sm. 70°; Sd. 220—230°₁₇ (Am. 30, 37 C. 1903 [2] 363).

23) Diphenylamid d. Chloressigsäure. Sm. 118° (Ar. 241, 220 C. 1903 [2] 104).

C₁₄H₁₂ON₂S

9) Di[Phenylamid] d. Thiooxalsäure. Sm. 144—145° (B. 37, 3720 C. 1904 [2] 1450).

C. 1904 [2] 1450).

C₁₄H₁₂O₂NCl₃
1) 2, 3, 5 - Trichlor - 1, 4 - Benzochinon + Dimethylamidobenzol.

Sm. 65° (B. 37, 180 C. 1904 [1] 653).

C₁₄H₁₂O₂NBr 7) Phenylamidoformiat d. 3-Brom-4-Oxy-1-Methylbenzol. Sm. 135° (B. 36, 2875 Anm. C. 1903 [2] 834).

$\mathbf{C_{14}H_{12}O_{2}N_{2}S}$	9) 4-Methylphenylcyanamid d. Benzolsulfonsäure. Sm. 88° (B. 37 , 2810 C. 1904 [2] 592).
$\mathbf{C_{14}H_{12}O_{2}N_{2}S_{3}}$	1) Farbstoff (aus 4-Dimethylamido-4'-Oxydiphenylamin). Zn, + NaHSO ₃
$\mathbf{C_{14}H_{12}O_{2}N_{3}Br}$	+ 2H ₂ O (J. pr. [2] 69, 168 C. 1904 [1] 1268). 2) Phenylamid d. 5-Brom-4-Oxy-3-Methylphenylazoameisensäure.
$\mathrm{C_{14}H_{12}O_{3}NCl}$	 Sm. 212—213° (A. 334, 192 C. 1904 [2] 835). 1) 2-Chlorbenzyläther d. 3-Nitro-4-Oxy-1-Methylbenzol. Sm. 104° (D.R.P. 142061 C. 1903 [2] 83). 2) 4-Chlorbenzyläther d. 3-Nitro-4-Oxy-1-Methylbenzol. Sm. 103°
	(D.R.P. 142061 C. 1903 [2] 83).
$\mathrm{C}_{14}\mathrm{H}_{12}\mathrm{O}_8\mathrm{NBr}$	2) Benzyläther d. 5 - Brom - 3 - Nitro-2-Oxy-I-Methylbenzol. Fl. (D.R.P. 142809 C. 1903 [2] 83).
$C_{14}H_{12}O_8N_2S$	3) 4-Methoxylphenylcyanamid d. Benzolsulfonsäure. Sm. 90—91° (B. 37, 2811 C. 1904 [2] 593).
$\mathbf{C_{14}H_{12}O_4N_2S}$	 5) α-Benzoyl-β-Phenylsulfonharnstoff. Sm. 208° (B. 36, 3220 C. 1903 [2] 1056; B. 37, 695 C. 1904 [1] 1074).
$\mathbf{C_{14}H_{12}O_4N_2S_2}$	4) O-4-Sulfophenylamid d. Phenylthiooxaminsäure. Na ₂ (B. 37, 3723 C. 1904 [2] 1450).
$\mathbf{C_{14}H_{12}O_4N_8J_8}$	1) 2,4,6-Trijod-1,3-Dinitrobenzol+Dimethylamidobenzol. Sm. 160° (B. 37, 179 C. 1904 [1] 653).
$\mathrm{C_{14}H_{12}O_5N_3J}$	1) Aethyläther d. 2-Jod-4-[2,4-Dinitrophenyl]amido-l-Oxybenzol. Sm. 1720 (B. 29, 2596).
$\mathrm{C}_{14}\mathbf{H}_{12}\mathrm{O}_5\mathbf{N}_4\mathrm{S}$	2) 4'- Nitro - 2'- Thioureïdo - 4- Oxydiphenylamin - 3 - Carbonsaure (D. R. P. 139679 C. 1903 [1] 748).
$\mathrm{C}_{14}\mathrm{H}_{12}\mathrm{O}_6\mathrm{N}_5\mathrm{Cl}$	1) 4'-Chlor-4,6-Dinitro 5-Methylnitramido-2-Methyldiphenylamin. Sm. 193° (J. pr. 2 67, 527 C. 1903 [2] 239).
$\mathbf{C_{14}H_{12}O_6Cl_2S_2}$	1) 4, 4'-Dichlor - 3, 3'-Dimethylbiphenyl - 6, 6'-Disulfonsäure. Ba + 3 1/2 H ₂ O (J. pr. [2] 66, 571 C. 1903 [1] 519).
$\mathbf{C_{14}H_{12}O_{8}N_{2}S_{2}}$	3) 4-Nitro-4'-Amido-s-Diphenyläthen-2,2'-Disulfonsäure. Na (Bl. [3] 29, 348 (l. 1903 [1] 1226).
$\mathbf{C}_{14}\mathbf{H}_{12}\mathbf{O}_{10}\mathbf{N}_{2}\mathbf{S}_{2}$	*1) $\alpha \beta$ -Di[4-Nitrophenyl]äthan-2,2'-Disulfonsäure (Suc. 85, 1427 C 1904 [2] 1739).
$\mathbf{C}_{14}\mathbf{H}_{18}\mathbf{ONBr}_{2}$	(4 332 225 C 1904 121 203).
$\mathbf{C_{14}H_{13}ONS}$	*1) 4-Acetylamidodiphenylsulfid. Sm. 148° (B. 36, 115 C. 1903 [1]
$\mathbf{C}_{14}\mathbf{H}_{13}\mathbf{ONS}_{2}$	1) 2-Thiocarbonyl-4-Keto-5-Cinnamyliden-3-Aethyltetrahydro- thiazol. Sm. 187° (M. 25, 177 C. 1904 [1] 895).
$\mathrm{C_{14}H_{18}ON_{2}Br}$	7) 2 - Oxy - 3 - [4 - Bromphenylhydrazon] methyl - 1 - Methylbenzol. Sm. 108° (B. 35, 4105 C. 1903 [1] 149).
	8) 4 - Oxy - 3 - [4 - Bromphenylhydrazon] methyl - 1 - Methylbenzol.
	9) Aethyläther d. 2'-Brom-4-Oxyazobenzol. Sm. 39° (B. 36, 5004
	10) Aethyläther d. 3'-Brom-4-Oxyazobenzol. Sm. 68° (B. 36, 3868 C. 1904 [1] 92).
$\mathrm{C}_{14}\mathrm{H}_{18}\mathrm{ON}_2\mathrm{J}$	2) 4'-Jodoso-2, 3'-Dimethylazobenzol. Zers. bei 273° (J. pr. [2] 69, 323 C. 1904 [2] 35).
$C_{14}H_{13}OIN_3S$	*4) β -Benzoylamido- α -Phenylthioharnstoff. Sm. 166–167° (B. 37, 2220 C 1904 [2] 313)
$\mathbf{C_{14}H_{13}O_{2}NS_{2}}$	1) Methyläther d. 2-Thiocarbonyi-4-Keto-3-Allyi-3-[4-0xy belizy-1] liden ltetra hydrothiazol. Sm. 114° (M. 24, 510 C. 1903 [2] 836).
$\mathbf{C_{14}H_{13}O_{2}N_{2}J}$	1) 4'-Jodo - 2, 3'-Dimethylazobenzol. Sm. 180° (J. pr. [2] 69, 525
$\mathrm{C_{14}H_{18}O_{2}N_{8}Cl_{2}}$	1) 1-1-N: (or the 1'hardware -1-Dichlormethyl-1-Methyl-1,4-Di- ny, (or z) /ers. (B. 35, 4213 C. 1903 [1] 161).
$C_{14}H_{13}O_2N_3S$	*1) s-Phenyl-2-Nitro-4-Methylphenylthioharnstoff. Sm. 145° (B. 36, 1138 C. 1903 [1] 1220).
$\mathbf{C_{14}H_{18}O_8NS}$	11) Methyl-4-Phenylsulfonamidophenylketon. Sm. 128 (Soc. 85, 300 C 1904 [1] [404).
$\mathbf{C}_{14}\mathbf{H}_{13}\mathbf{O}_{8}\mathbf{NS}_{2}$	1) 5 ³ - Methyläther d. 2-Thiocarbonyl-4-Keto-5-[3,4-Dioxybenzyliden]-3-Allyltetrahydrothiazol. Sm. 146° (M. 25, 164
	C. 1904 [1] 894).

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$\mathbf{C_{14}H_{19}O_{4}NS}$	12) 2-[4-Methy]; hanglanlemidahanzol-1-Carbonsäure. Sm. 2276 (B. 35, 4274 . ii'0)
	13) 1-[2-Methylphenyl]ester d. Benzol-1-Carbonsäure-2-Sulfonsäureamid. Sm. 152° (Am. 30, 300 C. 1903 [2] 1122).
$C_{14}H_{13}O_4N_3S$	2) α -Phtalimido- β -Pseudoäthylthioharnstoffakrylsäure. Sm. 130 bis 131° (Am . 32, 143 C . 1904 [2] 957).
$C_{14}H_{19}O_5NS$	 4-Methylphenyl-[3-Nitro-α-Oxybenzyl] sulfon. Sm. 110° (Am. 31, 167 C. 1904 [1] 875).
	6) 4-Methylphenyl-[4-Nitro- α -Oxybenzyl] sulfon. Sm. 116° (Am . 31, 168° C . 1904 [1] 875).
	7) 2 - Methyldiphenylamin - 2' - Carbonsäure - 4 - Sulfonsäure. Na (D.R.P. 146102 C. 1903 [2] 1152).
	8) 4 - Methyldiphenylamin - 2' - Carbonsäure - 3 - Sulfonsäure. Na (D.R.P. 146102 C. 1903 [2] 1152).
	 Methylester d. 3-Phenylsulfonamidobenzol-l-Carbonsäure. Sm. 197° (A. 325, 321 C. 1903 [1] 770).
	 Diacetylderivat d. Naphtalin-1-Sulfonsäurehydroxylamid. Sm. 104° (G. 33 [2] 307 C. 1904 [1] 288).
$C_{14}H_{18}O_6NBr_2$	$123-125^{\circ}$ (A. 333, 362 C. 1904 [2] 1116).
$C_{14}H_{13}O_6N_4Br$	1) 5-Brom-4-Amido-1,3-Dimethylbenzol + 1,3,5-Trinitrobenzol. Sm. 104-105° (Soc. 85, 238 C. 1904 [1] 1006).
$\mathbf{C}_{14}\mathbf{H}_{13}\mathbf{N}_{2}\mathbf{Cl}_{2}\mathbf{B}_{1}$	hydro (B. 35, 4213 C. 1903 [1] 161).
$\mathbf{C}_{14}\mathbf{H}_{18}\mathbf{N}_{2}\mathbf{Cl}_{2}\mathbf{J}$	1) 2,3'-Dimethylazobenzol-4'-Jodidchlorid. Zers. bei 101° (J. pr. [2] 69, 323 C. 1904 [2] 35).
$C_{14}H_{14}ONCl$	1) 2-Chlorbenzyläther d. 3-Amido-4-Oxy-1-Methylbenzol, HCl (D.R.P. 142061 C. 1903 [2] 83).
	2) 4-Chlorbenzyläther d. 3-Amido-4-Oxy-l-Methylbenzol. HCl (D. R. P. 142061 C. 1903 [2] 83).
$C_{14}H_{14}ONBr$	8) Benzyläther d. 5-Brom-3-Amido-2-Oxy-1-Methylbenzol. HCl (D.R.P. 142899 C. 1903 [2] 83).
$C_{14}H_{14}ON_2S$	10) 1-77 1-10 1-10 d. 4-Merkaptophenylharnstoff. Sm. 1680
$\mathbf{C_{14}H_{14}O_{4}N_{2}S}$	13) 2 - Oxyazobenzoläthyläther - 5 - Sulfonsäure. Na (B. 36, 2978 C. 1903 [2] 1031).
$\mathbf{C_{14}H_{14}O_5N_9S}$	*2) 2-Naphtwisulforomidancatulamidoessigsäure (β-Naphtalinsulforomidancatulamidoessigsäure
	2596 C. 1903 [2] 618). 4) 5-Nitro-2-[4-Methylphenyl]amidophenylmethan-u-Sulfonsäure.
	Na (D.R.P. 150366 C. 1904 [1] 1308). 5) 5-Nitro-2-[2-Methylphenyl amidophenylmethan-u-Sulfonsäure.
$\mathbf{C}_{1:1}\mathbf{H}_{1:4}\mathbf{O}_{6}\mathbf{N}_{2}\mathbf{S}_{2}$	Na (D.R.P. 150366 O. 1904 [1] 1308). *5) 4,4'-Dimethylazobenzol-3,3'-Disulfonsäure (C. 1903 [1] 1414).
$C_{14}H_{15}ONBr_2$	1) 6-Brom-5-Oxy-2-Brommethyl-1,4-Dimethylbenzol + Pyridin. Sm. 221—223° u. Zers. (B. 36, 1890 C. 1903 [2] 291).
$\mathbf{C}_{14}\mathbf{H}_{15}\mathbf{ON}_{2}\mathbf{Br}$	2) Aethyläther d. 3'-Brom-2-Amido-5-Oxydiphenylamin (B. 36, 3868 C. 1904 [1] 92).
	3) Aethyläther d. 3'-Brom-4'-Amido-4-Oxydiphenylamin. Sm. 54° (B. 36, 3865 C. 1904 [1] 91).
$\mathbf{C_{14}H_{15}ON_{2}P}$	3) 4-Methylphenylimid-4-Methylphenylamid d. Phosphorsäure. Sm. 226-228° (Soc. 83, 1048 C. 1903 [2] 663).
$\mathbf{C}_{14}\mathbf{H}_{15}\mathbf{O}_{2}\mathbf{NS}$	*9) 2,4-Dimethylphenylamid d. Benzolsulfonsüure. Sm. 124-125° (Soc. 85, 377 C. 1904 [1] 1412).
	*13) 2-Methylphenylamid d. 1-Methylbenzol-4-Sulfonsäure. Sm. 110° (Soc. 85, 1186 C. 1904 [2] 1115).
	15) Asthylphenylamid d. Benzolsulfonsäure. Fl. (B. 36, 2706)
$C_{14}H_{15}O_4N_4Br$	(., 1903 12, 82.). 1) Methylester d. 2-[4-Bromphenyl]amido-1, 2, 3, 6-Oxtriazin-5- [Isobutyryl-a-Carbonsäure]. Sm. 159° (Sac. 83, 1252 C. 1903 [2])
$\mathbf{C}_{14}\mathbf{H}_{15}\mathbf{O}_{6}\mathbf{N}_{8}\mathbf{S}_{2}$	1422). 2) 2, 2'-Dimethyldiazoamidobenzol-5, 5'-Disulfonsäure (Iil. [3] 31, 644 C. 1904 [2] 96).

$C_{14}H_{16}ONCI$	1) Pyridyliumchlorid (aus Pyridin u. d. Methyläther d. α-Chlor-α-[2-Oxyphenyl]äthan. Sm. 119—121° (B. 36, 3590 C. 1903 [2] 1365).
$\mathbf{C_{14}H_{16}ONJ}$	1) Jodmethylat d. N-Methyl- β -Naphtomorpholin. Sm. 163-1640
$\mathbf{C_{14}H_{16}O_{3}NP}$	u. Zers. (Soc. 83, 763 C. 1903 [1] 1419 C. 1903 [2] 448). *2) Phenylmonamid d. Phosphorsäureäthylphenylester. Sm. 120°
$\mathbf{C_{14}H_{16}O_{8}N_{2}S}$	(A. 326, 226 C. 1903 [1] 866). 2) 4-Amido-4'-Sulfomethylamidodiphenylmethan. Sm. 168° (D.R.P.
$\mathrm{C_{14}H_{16}O_{3}N_{4}S}$	148760 C. 1904 [1] 555). 1) P-Diamido-P-Methylazobenzol-P-Sulfonsäure. NH ₄ , Na, Ba
$\mathrm{C}_{14}\mathrm{H}_{16}\mathrm{O}_{5}\mathrm{N}_{8}\mathrm{Cl}$	 (J. pr. [2] 68, 301 C. 1903 [2] 1142). 1) Methylester d. δ-Oximido-ε-[4-Chlorphenyl]hydroxylhydrazon-γ-Keto-β-Methylpentan-β-Carbonsäure. Sm. 140°. HCl (Soc. 83, 1204 C. 1302 [2] 1421).
$\mathbf{C_{14}H_{16}O_{6}N_{2}S_{2}}$	1246 C. 1903 [2] 1421). *3) 4,4'-Diamido-3,3'-Dimethylbiphenyl-6,6'-Disulfonsäure (J. pr. [2] 66, 560 C. 1903 [1] 518).
$C_{14}H_{16}NJS$	1) Methyl-4-Amidophenyl-4-Methylphenylsulfinjodid. Sm. 80°
$\mathbf{C_{14}H_{17}ON_{2}Cl}$	(J. pr. [2] 68, 278 C. 1903 [2] 994). 1) Verbindung (aus 4,4'-Di[Methylamido]biphenyl) (B. 37, 3774
$\mathrm{C_{14}H_{17}O_{2}NBr_{2}}$	C. 1904 [2] 1548). 1) Acetat d. 1-[3,5-Dibrom-2-Oxybenzyl]hexahydropyridin. Sm.
$C_{14}H_{17}O_2NS_2$	86-87°. HCl, HBr (A. 332, 218 C. 1904 [2] 202). 1) Gem. Anhydrid d. 4-Oxybenzolmethyläther-1-Carbonsäure u. Hexahydropyridin-1-Dithiocarbonsäure (N-Piperidyl-S-p-Anisoyl-12thiomethyl State (1904 C. 1904 (1904 C. 1904 (1904 C. 1904
$\mathbf{C_{14}H_{17}O_{2}N_{2}P}$	dithiourethan). Sm. 62-65° (B. 36, 3524 C. 1903 [2] 1326). 3) Di[Phenylamid] d. Phosphorsäuremonoäthylester. Sm. 114° (4. 226 246 C. 1903 [1] 262).
$\mathrm{C_{14}H_{17}O_{8}N_{2}Br}$	(A. 326, 246 C. 1903 [1] 868). 2) Isobutyläther d. 3-Brom-5-Nitro-2-Oxy-1-Methyl-1, 2-Dihydro-
$C_{14}H_{17}N_2JS$	ehinolin. Sm. 70° (<i>J. pr.</i> [2] 45, 187). — IV, 266. 1) 2-Jodmethylat d. 5-Merkapto-3-Methyl-1-Phenylpyrazol-5-Allyläther. Sm. 125° (<i>A.</i> 331, 203 C. 1904 [1] 1218).
* "	2) 2-Jodallylat d. 5-Merkapto-3-Methyl-1-Phenyl-5-Methyläther. Sm. 142° (A. 331, 214 C. 1904 [1] 1219).
$\mathbf{C_{14}H_{18}ON_{8}P}$	1) Dimethylmonamid-Di[Phenylamid] d. Phosphorsäure. Sm. 196° (A. 326, 180 C. 1903 [1] 819).
P	2) Aethylamid-Di[Phenylamid] d. Phosphorsäure. Sm. 147° (A. 326, 173 C. 1903 [1] 819).
$\mathbf{C_{14}H_{18}O_{2}N_{2}Cl_{2}}$	1) Verbindung (aus Di[Chlarrathavelmathyl] äther u. Pyridin). +PtCl ₄ , + 2 AuCl ₃ (4. 334, 3. (. 1901).
$\mathbf{C_{14}H_{18}N_{3}SP}$	1) Dimethylmonamid - Di [Phenylamid] d. Thiophosphorsäure. Sm. 209—210° (A. 326, 210 C. 1903 [1] 822).
•	2) Aethylmonamid-Di[Phenylamid] d. Thiophosphorsäure. Sm. 106° (A. 326, 203 C. 1903 [1] 821).
$\mathbf{C}_{14}\mathbf{H}_{19}\mathbf{ONJ}_4$	1) Verbindung (aus Cineol u. 2, 3, 4, 5-Tetrajodpyrrol). Sm. 112° u. Zers. (Ar. 235, 178). — *III, 340.
$\mathbf{C_{14}H_{19}O_{2}NBr_{2}}$	1) N-Acetylamyl-3,5-Dibrom-2-Oxybenzylamin. Sm. 150° (A. 332, 187 C. 1904 [2] 210).
$\mathbf{C}_{14}\mathbf{H}_{19}\mathbf{N}_{2}\mathbf{JS}$	1) 2-Jodmethylat d. 5-Merkapto-3-Methyl-I-Phenylpyrazol-5-Isopropyläther + H ₂ O. Sm. 170-172° (wasserfrei) (A. 331, 202
	C. 1904 [1] 1218).2) 2-Jodmethylat d. 5-Merkapto-3,4-Dimethyl-1-Phenylpyrazol-5-
	Aethyläther. Sm. 125° (A. 331, 219 C. 1904 [1] 1219). 3) 2-Jodisopropylat d. 5-Merkapto-3-Methyl-1-Phenylpyrazol- 5-Methyläther + H ₂ O. Sm. 187° (wasserfrei) (A. 331, 227 C. 1904
$\mathbf{C}_{14}\mathbf{H}_{20}\mathbf{ONCl}$	 [1] 1220). 2) Nitrosochlorid d. α-[2,4,6-Trimethylphenyl]-γ-Methyl-α-Buten.
$\mathbf{C_{14}H_{20}ON_{2}S}$	Sm. 185° u. Zers. (B. 37, 930 C. 1904 [1] 1209). 3) s-Caproyl-2-Methylphenylthioharnstoff. Sm. 97—98° (Soc. 85,
	810 C. 1904 [2] 201, 519). 4) s-Caproyl-4-Methylphenylthioharnstoff. Sm. 90—91° (Soc. 85,
$\mathbf{C_{14}H_{20}ON_5P}$	810 C. 1904 [2] 201, 520). 1) Dimethylmonamid-Di[Phenylhydrazid] d. Phosphorsäure. Sm.
	194—195° (A. 326, 181° C. 1903 [1] 819). 2) Aethylamid-Di[Phenylhydrazid] d. Phosphorsäure. Sm. 153° (A. 326, 173° C. 1903 [1] 819).

14 144.	— 012 —
$\mathrm{C_{14}H_{20}O_{3}NCl}$	3) Chlormethylat d. Methylanhalonidin. 2 + PtCl ₄ (B. 34, 3015) *III, 602.
$\mathbf{C_{14}H_{20}O_{8}NJ}$	 Jodmethylat d. α-Methylhydrocotarnin. Sm. 228—229° (B. 36, 4258 C. 1904 [1] 382).
$\mathbf{C_{14}H_{20}O_{8}N_{2}S_{2}}$	1) Diäthylester d. Benzol-1, 3-Di[Sulfonamidoessigsäure]. Sm. 110° (B. 37, 4103 C. 1904 [2] 1727).
$\mathbf{C_{14}H_{23}O_{2}NS}$	*3) Diisobutylamid d. Benzolsulfonsäure. Sm. 55—56° (B. 36, 2706 C. 1903 [2] 829).
$egin{array}{l} \mathbf{C_{14}H_{23}O_{2}N_{2}J} \\ \mathbf{C_{14}H_{23}O_{3}NS} \end{array}$	 Jodpropylat d. Pilocarpin (B. 35, 2455). — *III, 684. Methylamid d. δ-Oxy-δ-Phenylheptan-δ²-Sulfonsäure. Sm. 122 bis 123° u. Zers. (B. 37, 3267 C. 1904 [2] 1031).
$\mathbf{C_{14}H_{24}O_{4}N_{8}S}$	 Semicarbazon d. Dihydro-α-Jononsulfonsäure. Sm. 203 ° u. Zers. Na (C. 1904 [1] 280).
$\mathbf{C}_{14}\mathbf{H}_{30}\mathbf{N}_3\mathbf{SP}$	 Diäthylmonamid-1,1-Dipiperidid d. Thiophosphorsäure. Sm. 126° (A. 326, 212 C. 1903 [1] 822). Isobutylmonamid-1,1-Dipiperidid d. Thiophosphorsäure. Sm. 106°
$\mathbf{C_{14}H_{33}ON_{2}P}$	(A. 326, 205 C. 1903 [1] 821). — *IV, 10. 1) Aethyläther d. Di[Dipropylamido oxyphosphin. Sd. 143—147° ₂₉ (A. 326, 164 C. 1903 [1] 761).
$\mathbf{C}_{14}\mathbf{H}_{83}\mathbf{O}_{2}\mathbf{N}_{2}\mathbf{P}$	1) Di[Dipropylamid] d. Phosphorsäuremonoäthylester. Sd. 164 bis 166° 20 (A. 326, 165 C. 1903 [1] 762).
	14 V
$\mathrm{C}_{14}\mathrm{H}_5\mathrm{O}_{11}\mathrm{N}_2\mathrm{BrS}$	 P-Bromdinitro - 1, 5 - Dioxy-9, 10 - Anthrachinon - P-Sulfonsäure (D.R. P. 114200 C. 1900 [2] 930). — *III, 30C. Bromdinitro - 1, 8 - Dioxy - 9, 10 - Anthrachinonsulfonsäure. (D.R. P. 114200 C. 1900 [2] 930). — *III, 30S.
$egin{array}{l} \mathbf{C_{14}H_6ONBrS_2} \\ \mathbf{C_{14}H_6O_2NCl_2Br} \end{array}$	 Bromindophtenin (B. 37, 3351 U. 1904 [2] 1058). Phenylimid d. 3, 5-Dichlor-4-Brombenzol-1, 2-Dicarbonsäure.
$\mathbf{C_{14}H_7O_4NCl_2S}$	Sm. 200—200,5° (Soc. 85, 277 C. 1904 [1] 1009). 1) Dichloramid d. 9,10-Anthrachinon-2-Sulfonsäure. Sm. 177° (C. 1904 [2] 435).
$\mathbf{C_{14}H_{8}ON_{2}Br_{4}S}$	1) Tetrabrommethylenviolet (B. 37, 2621 C. 1904 [2] 484; B. 37, 3032 C. 1904 [2] 1012).
$\mathrm{C}_{14}\mathrm{H}_{9}\mathrm{O}_{5}\mathrm{N}_{2}\mathrm{C1S}$	1) 6 - oder - 7 - Chlor - 3 - Oxy - 2 - [2 - Oxyphenyl] - 1, 4 - Benzdiazin-P-Sulfonsäure. Na $+$ 3 H ₂ O, Ba (B. 35, 4335 C. 1903 [1] 293).
$C_{14}H_9O_7N_2BrS$	1) P-Brom-4,5-Diamido-1,8-Dioxy-9,10-Anthrachinon-2-Sulfon- säure (D. R. P. 114200 C. 1900 [2] 930). — *III, 308.
	2) Bromdiamido - 1, 5 - Dioxy - 9, 10 - Anthrachinonsulfonsäure (D.R.P. 114200 C. 1900 [2] 930). — *III, 307
$\mathrm{C_{14}H_{10}O_6NCIS}$	1) 2-Chlorid d. 4-Nitrobenzol-1-Carbonsäure-[2-Methylphenyl] ester-2-Sulfonsäure. Sm. 150° (Am. 30, 379 (J. 1904 [1] 275).
	2) 2-Chlorid d. 4-Nitrobenzol-1-Carbonsäure-[4-Methylphenyl] ester-2-Sulfonsäure. Sm. 152° (Am. 30, 380 C. 1904 [1] 275).
$C_{14}H_{12}O_3NCIS$	1) Methyl - 4 - Phenylsulfonchloramidophenylketon. Sm. 91 ° (Soc. 85, 390 C. 1904 [1] 1404).
$C_{14}H_{14}O_{2}NC18$	1) 6 - Chlor - 2, 4 - Dimethylphenylamid d. Benzolsulfonsäure. Sm. 148-149° (C. 1904 [1] 1075; Sov. 85, 377 C. 1904 [1] 1412).
	2) 2-Methylphenylchloramid d. 1-Methylbenzol-4-Sulfonsäure. Sm. 101° (Soc. 85, 1186 C. 1904 [2] 1115).
	3) 4-Methylphenylchloramid d. 1-Methylbenzol-4-Sulfonsäure. Sm. 109° (Soc. 85, 1186 C. 1904 [2] 1115).
$C_{14}H_{14}O_2NJS$	2) Methyl-3-Jodphenylamid d. 1-Methylbenzol-4-Sulfonsäure. Sm. 81° (A. 332, 60 C. 1904 [2] 41).
$\mathbf{C_{14}H_{14}O_{3}N_{2}Cl_{2}S}$	1) 3,3'-Dichlor-4-Amido -4'-Sulfome hard phenylmethan. Sm. 168—169° (D. R. P. 148760 C. 1901
$\mathrm{C_{14}H_{16}ON_{2}ClP}$	2) Phenylamid - Aethylphenylamid d. Phosphorsäuremono- chlorid. Sm. 113° (A. 826, 255 C. 1903 [1] 869).
	3) Di[4-Methylphenylamid] d. Phosphorsäuremonochlorid. Sm. 210° (A. 326, 249 C. 1903 [1] 868).
$\mathbf{C}_{14}\mathbf{H}_{39}\mathbf{ON}_{2}\mathbf{SP}$	1) Di[Dipropylamid] d. Thiophosphorsäuremonoäthylester. Sd. 178—180° 22 (A. 326, 165 C. 1903 [1] 761).

C₁₅-Gruppe.

*2) 2-Methylanthracen (Soc. 81, 1581 C. 1903 [1] 34, 167). $C_{15}H_{12}$ 8) Kohlenwasserstoff (aus β -Chlor- $\alpha\gamma$ -Diphenylpropen). Sm. 121,5° (B. 37, 1144 C. 1904 [1] 1260).
*1) α-Phenyl-β-[4-Methylphenyl]äthen. Sm. 117° (B. 35, 3967 C. 1908 $C_{15}H_{14}$ [1] 31). *4) \(\alpha \alpha \)-Diphenylpropen. Sm. 52°; Sd. 149°₁₁ (B. 37, 232 C. 1904 [1] 660; B. 37, 1450 C. 1904 [1] 1352).
*5) αβ-Diphenylpropen. Sm. 82—83° (B. 36, 1495 C. 1903 [1] 1351; B. 37, 458 C. 1904 [1] 949; B. 37, 1134 C. 1904 [1] 1256; C. r. 139, 482 C. 1904 [2] 1038). *1) $\alpha\beta$ -Diphenylpropan. Sd. 277—279° (B. 37, 1450 C. 1904 [I] 1352). *9) $\alpha\alpha$ -Diphenylpropan. Sd. 139°₁₁ (B. 37, 1450 C. 1904 [I] 1352). $C_{15}H_{16}$ 8) Kohlenwasserstoff (aus α-Homodypnopinakolin) (C. 1903 [1] 880).
*3) d-Cadinen (Ar. 241, 148 C. 1903 [1] 1029).
*16) Patschoulen. Sd. 112—115°₁₂₋₁₂₅ (Ar. 241, 41 C. 1903 [1] 713).
*23) Guajen. Sd. 123—124°₅ (Ar. 241, 43 C. 1903 [1] 713).
45) Amorphen. Sd. 250—270° (C. 1904 [2] 224).
46) Atractylen. Sd. 125—126°₁₀ (Ar. 241, 33 C. 1903 [1] 712).
47) polym. Atractylen. Sd. 133—141°_{14,5} (Ar. 241, 34 C. 1903 [1] 712).
48) d-Cadinen. Sd. 260—261° (274—275°) (Ar. 240, 291 C. 1902 [2] 124; C. r. 135, 1058 C. 1903 [1] 233). — *III, 402.
49) d-Galipen. Sd. 258—259° (Ar. 235, 528; 236, 394). — *III, 403.
50) l-Galipen. Sd. 262—263°₁₀ (C. r. 135, 1060 C. 1903 [1] 234). 8) Kohlenwasserstoff (aus α-Homodypnopinakolin) (C. 1903 [1] 880). $C_{15}H_{22}$ $C_{15}H_{24}$ 51) Vetiven. Sd. 262—263°, (C. r. 135, 1060 C. 1903 [1] 234). 52) Sesquiterpen (aus Citronellöl). Sd. 260—270° u. Zers. (C. 1899 [2] 879). - *III, 403. 53) Sesquiterpen (aus Citronellöl). Sd. 272-275°760 (C. 1899 [2] 879). -*III, 403. 54) d-Sesquiterpen (aus Eucalyptusöl). Sd. $265,5-266^{\circ}_{.750}$ (C. 1904 [1] 1264). 55) 1-Sesquiterpen (aus Eucalyptusöl). Sd. $247-248^{\circ}_{.748}$ (C. 1904 [1] 1264). 56) Sesquiterpen (aus Limettöl). Sd. $262-263^{\circ}_{.756}$ (Soc. 85, 415 C. 1904 [1] 1443). 57) Sesquiterpen (aus Patschouliöl). Sd. 264-265 750 (B. 37, 3354 C. 1904 [2] 1308). 3) Dihydroisocaryophyllen. Sd. 137—138°₁₉ (B. 36, 1038 C. 1903 [1] 1135). 6) Spilanthen. Sd. 220—225° (Ar. 241, 278 C. 1903 [2] 451). $C_{15}H_{26}$ $C_{15}H_{30}$ - 15 II - $\mathbf{C}_{15}\mathbf{H}_{6}\mathbf{O}_{9}$ (Dipyrogalloltricarbonat). Sm. 177° (B. 37, 107 C. 1904 [1] 584). 6) Alochrysin? Sm. 223-2240 (Ar. 237, 89). - *III, 455. $C_{15}H_8O_5$ C₁₅H₈O₆ C. 1904 [1] 1077).

C 54,6 — H 1,8 — O 43,6 — M. G. 330. 1) 2, 3, 2', 3'-Dicarbonat d. Kohlensäuredi [2, 3-Dioxyphenylester] 4) Rheïn. Sm. 313-314° (C. 1903 [1] 297; Ar. 240, 610 C. 1903 [1] 176; 5) 1,4-Dioxy-9,10-Anthrachinon-2-Carbonsaure? (D.R.P. 84505). — *II, 1185. 6) Diacetat d. Anhydropurpurogallon. Sm. 174-176° (Soc. 83, 198 C. 1903 [1] 402, 639). 7) Diacetat d. Anhydroisopurpurogallon. Sm. 280—282° (Soc. 83, 198 C. 1903 [1] 402, 640). C 51,7 - H 2,3 - O 46,0 - M. G. 348.C15H8O10 1) Galloflavin (oder $C_{13}H_6O_9$) (M. 25, 603 C. 1904 [2] 907). *7) 3-Phenyl-1, 2-Benzpyron. Sm. 137° (140°) (C. 1903 [1] 89; B. 37, 3165 C. 1904 [2] 983). $C_{15}H_{10}O_2$ *9) 2-Phenyl-1,4-Benzpyron (B. 37, 2635 C. 1904 [2] 540).

*11) Anthracen-1-Carbonsäure (B. 37, 648 C. 1904 [1] 892).
19) Phenyläther d. γ -Keto- α -Oxy- γ -Phenylpropin. Sm. 69°; Sd. 178 bis 179°₂₀ (B. 36, 293 C. 1903 [1] 581).

15 II. 344 -*1) $\alpha\beta\gamma$ -Triketo- $\alpha\gamma$ -Diphenylpropan. Sm. 66—67° (B. 37, 1531 C. 1904 [1] 1609). $C_{15}H_{10}O_{3}$ *6) B-Phenylumbelliferon (B. 36, 193 C. 1903 [1] 469). *8) 7-Oxy-2-Phenyl-1,4-Benzpyron. Sm. 242-243° (J. pr. [2] 67, 342 C. 1903 [1] 1361). 23) Methyläther d. I-Oxy-9,10-Anthrachinon. Sm. 140-1450 (D.R.P. 75054). — *III, 300. 24) Methyläther d. 2-Oxy-9,10-Anthrachinon. Sm. 195—196° (B. 37, 65 C. 1904 [1] 520). 25) 3-Oxy-2-Phenyl-1,4-Benzpyron (Flavonol). Sm. 169-170° (B. 37, 2820 C. 1904 [2] 712). 26) 2-Acetyl-3, 4-β-Naphtopyron (α-Acetyl-β-Naphtocumarin). Sm. 187°
 (B. 36, 1973 C. 1903 [2] 377). 27) 2-Oxyphenanthren-3-Carbonsäure. Sm. 277° (B. 35, 4425 C. 1903 [1] 334). 28) 3-Oxyphenanthrencarbonsäure. Sm. 303° u. Zers. (B. 35, 4425 C. 1903 [1] 334). 29) Methylester d. 9-Ketofluoren-2-Carbonsäure. Sm. 1810 (M. 25, 451 C. 1904 [2] 450). *2) 5,7-Dioxy-2-Phenyl-1,4-Benzpyron (B. 37, 3168 C. 1904 [2] 1059). C,5H10Q4 *8) Chrysophansäure. Sm. 176° (Soc. 81, 1583 C. 1903 [1] 34, 167; Ar. 240, 602 C. 1903 [1] 176; Soc. 83, 1327 C. 1904 [1] 100; C. 1904 [1] 1077). 40) Sennachrysophansäure. Sm. 171-172° (Ar. 238, 435). - *III, 324. 41) 2-Keto-1-[3,4-Dioxybenzyliden]-1,2-Dihydrobenzfuran. Sm. 2240 (B. 30, 1082). — *III, 531. 42) 3,6-Dioxy-2-Phenyl-1,4-Benzpyron. Sm. $233-234^{\circ}$ (B. 37, 777) C. 1904 [1] 1156). 43) 3,7-Dioxy-2-Phenyl-1,4-Benzpyron. Sm. 257—259° (B. 37, 1182 C. 1904 [1] 1275). 44) 7,8-Dioxy-2-Phenyl-1,4-Benzpyron. Sm. 239° (B. 36, 4242 C. 1904 [1] 382). 45) 5,7-Dioxy-4-Phenyl-2,1-Benzpyron. Sm. 293° (D.R.P. 73700). — *II, 1144. $C_{15}H_{10}O_{5}$ C. 1904 [1] 100; C. 1904 [1] 1077). C. 1904 [2] 712). Sm. 233° (M. 23, 1017 C. 1903 [1] 291). 43) Emodin (aus Feroxaloe). Sm. 216° (Ar. 241, 348 C. 1903 [2] 726). 44) isom. Isoemodin. Sm. 212° (C. 1904 [1] 1077).

- *6) Emodin. Sm. 254-255° (Ar. 240, 607 C. 1903 [1] 176; Soc. 83, 1329
- *15) 3, 5, 7-Trioxy-2-Phenyl-1, 4-Benzpyron + H₂O (Galangin). 217–218°, K + H_2O (Soc. 83, 135 C. 1903 [1] 89, 466; B. 37, 2805
 - Monomethyläther d. 1, 2, 3-Trioxy-9, 10-Anthrachinon.

 - 45) 5,6-Dioxy-2-Keto-1-[2-Oxybenzyliden]-1,2-Dihydrobenzfuran. Sm. 214—216° (B. 29, 2433). — *III, 533.
 - 46) 5,6-Dioxy-2-Keto-1-[3-Oxybenzyliden]-1,2-Dihydrobenzfuran. Sm. 221—223° (B. 29, 2433). — *III, 533.
 - 42) 5,6-Dioxy-2-Keto-1-[4-Oxybenzyliden]-1,2-Dihydrobenzfuran. Sm. 220° (B. 29, 2434). — *III, 533.
 - 47) 3,7,8-Trioxy-2-Phenyl-1,4-Benzpyron. Sm. 249 (B. 37, 2808)
 - C. **1904** [2] 713). 48) 3,6-Dioxy-2-[2-Oxyphenyl]-1,4-Benzpyron. Sm. 242-243° (B. 37, 2348 C. 1904 [2] 230).
 - 49) 3,6-Dioxy-2-[3-Oxyphenyl]-1,4-Benzpyron. Sm. 300° u. Zers. (B. 37, 960 C. 1904 [1] 1160).
 - 50) 3,6-Dioxy-2-[4-Oxyphenyl]-1,4-Benzpyron. Sm. 340° u. Zers. (B. 37, 784 C. 1904 [1] 1159).
 51) 3,7-Dioxy-2-[2-Oxyphenyl]-1,4-Benzpyron. Sm. 271° (B. 37, 4158)
 - C. 1904 [2] 1658).
 - 52) 3,7-Dioxy-2-[3-Oxyphenyl]-1,4-Benzpyron. Sm. 298-300° (B. 37,
 - 4160 C. 1904 [2] 1658). 53) 3,7-Dioxy-2-[4-Oxyphenyl]-1,4-Benzpyron. Sm. 310° (B. 37, 4162) C. 1904 [2] 1659).

*3) 3,7-Dioxy-2-[3,4-Dioxyphenyl]-1,4-Benzpyron + H₂O (Fisetin). $C_{16}H_{10}O_{6}$ Sm. 330° u. Zeis. (B. 37, 790 C. 1904 [1] 1157). *4) Luteolin + H₂O (B. 37, 2627 C. 1904 [2] 538). *6) Rhein. Sm. 314° (Ar. 241, 604 C. 1904 [1] 168). *18) 3,5,7-Trioxy-2-[4-Oxyphenyl]-1,4-Benzpyron (Kämpferol). Sm. 275° (B. 37, 2098 C. 1904 [2] 121; C. 1904 [2] 453). *20) Robigenin + H₂O. Sm. 270° (C. 1904 [1] 1610; Ar. 242, 223 C. 1904 [1] 1651). 21) 3,6-Dioxy-2-[3,4-Dioxyphenyl]-1,4-Benzpyron. Sm. 335° u. Zers. (B. 37, 781 C. 1904 [1] 1156). 22) 3,7,8-Trioxy-2-[2-Oxyphenyl]-1,4-Benzpyron. Sm. 298° u. Zers. (B. 37, 2630 C. 1904 [2] 539).
23) 3,7,8-Trioxy-2-[3-Oxyphenyl]-1,4-Benzpyron. Sm. 260° (B. 37, 260°) 2633 C. 1904 [2] 540). 24) Pigment d. Geraniums. K₂ (B. 36, 3959 C. 1904 [1] 39). *1) 3, 5, 7-Trioxy-2-[2, 4-Dioxyphenyl]-1, 4-Benzpyron (Morin) (B. 37, C15H10O7 2350 O. 1904 [2] 230). *2) 3, 5, 7-Trioxy-2-[3, 4-Dioxyphenyl]-1, 4-Benzpyron (Quercetin; Sophoretin). Sm. 313-314° u. Zers. (B. 37, 1404 C. 1904 [1] 1356; Ar. 242, 550 C. 1904 [2] 1405). *2) 2-Phenylchinolin. Sin. 84°; Sd. 363° (C. 1904 [2] 454; M. 25, 621 C15H11N C. 1904 [2] 1154). *9) Nitril d. αβ-Diphenylakrylsäure. Sm. 86° (B. 36, 2862 C. 1903 [2] *4) Benzylidenacetophenon. HCl (B. 37, 1652 C. 1904 [1] 1603). 12) 3-Keto-1-Phenyl-2,3-Dihydroinden. Sm. 78° (Am. 31, 650 C. 1904 $C_{15}H_{12}O$ [2|446).*7) Dibenzoylmethan. Sm. 78° (B. 36, 3677 C. 1903 [2] 1442). $C_{15}H_{12}O_2$ *15) 2,7-Dimethylxanthon (C. r. 136, 1568 C. 1903 [2] 384). *17) 4,5-Dimethylxanthon. Sm. 172° (C. r. 136, 1007 C. 1903 [1] 1267; Bl. [3] 31, 267 C. 1904 [1] 1089). *27) Lakton d. 6-Oxy-3-Methyldiphenylessigsäure. Sm. 106°; Sd. 213° 16 (B. 36, 4001 C. 1904 [1] 174). 39) 3,4-Methylenäther d. α -Phenyl- β -[3,4-Dioxyphenyl]äthen. Sm. 95—96° (B. 37, 1432 C. 1904 [1] 1351). 40) 3-Methyläther d. 3,4-Dioxyphenanthren (Methylmorphol). Sm. 650 (B. 37, 3497 C. 1904 [2] 1320). 41) 2-Phenyl-2,3-Dihydro-1,4-Benzpyron (Flavanon). Sm. 75-76° (B. 37, 2634 C. 1904 [2] 540). 42) 2-Aethyl-3,4-β-Naphtopyron (α-Aethyl-β-Naphtocumarin). Sm. 110° (B. 36, 1970 C. 1903 [2] 377). 43) Methylester d. Fluoren-2-Carbonsaure. Sm. 120° (M. 25, 449 C. 1904 [2] 449). 44) Benzoat d. α-Oxy-α-Phenyläthen. Sm. 41°; Sd. 229-230° (Soc. 83, 152 C. 1903 [1] 72, 436; B. 36, 3675 C. 1903 [2] 1442). *7) Chrysophanhydroanthron. Sm. oberh. 200° (Ar. 240, 606 C. 1903 $C_{15}H_{12}O_8$ [1] 176). *15) α-Phenyl-β-[3-Oxyphenyl]akrylsäure. Sm. 172° (B. 37, 4132 Anm. C. 1904 [2] 1736). *28) Methylester d. 2-Benzoylbenzol-1-Carbonsäure. Sm. 52°; Sd. 350 bis 352° (M. 25, 475 C. 1904 [2] 336).
*37) 8-Oxy-5,7-Dimethylfluoron (M. 25, 319 C. 1904 [1] 1495). *38) Chrysarobin. Sm. 202° (Soc. 81, 1578 C. 1903 [1] 33, 166).
42) isom. Methylester d. 2-Benzoylbenzol-1-Carbonsäure. Sm. 80—81°;
Sd. 345—348° (M. 25, 477 C. 1904 [2] 337). Sm. 89° (B. 37, 1531 *5) ββ-Dioxy-αγ-Diketo-αγ-Diphenylpropan. C15H12O4 C. 1904 [1] 1609). *11) 2-[4-Methoxylbenzoyl|benzol-1-Carbonsäure. Sm. 142-143° (B. 36, 2965 C. 1903 [2] 1007). *22) Monobenzylester d. Benzol-1, 2-Dicarbonsäure. Sm. 104° (106—107°) (B. 35, 4093 C. 1903 [1] 76; J. pr. [2] 68, 242 Anm. C. 1903 [2] 1063). *34) Dibenzoat d. Dioxymethan (C. 1903 [2] 656).

35) Aldehyd d. 3-Benzoxyl-4-Methoxylbenzol-1-Carbonsäure. Sm. 750

(B. 35, 4398 C. 1903 [1] 341).

 $C_{15}H_{12}O_5$

 $C_{15}H_{12}O_6$

 $C_{15}H_{12}O_7$

 $C_{15}H_{12}N_2$

14) Buteïn + H_2O .

1904 [2] 451).

73 700). — *III, *103*.

Sm. 199° (B. 37, 1945 C. 1904 [2] 124).

15) Butin $+ \frac{1}{2}$ H₂O. Sm. 224—226° (C. 1903 [1] 1415; 1904 [2] 453). 16) 3,5-Dioxybenzoat d. α-Oxymethylphenylketon. Sm. 200° (D. R.P.

12) Farbstoff (aus Rosa gallica). Sm. noch nicht bei 220° (C. 1904 [2] 1405). 5) Verbindung (aus 1,3,4-Triketo-2-Methyl-1,2,3,4-Tetrahydroisochinolin).

Sm. 213-215° (wasserfrei) (C. 1903 [1] 1415:

*2) 1,3-Diphenylpyrazol. Sm. 84-85° (B. 36, 3988 C. 1904 [1] 171). *4) 3,5-Diphenylpyrazol. Sm. 199-200° (C. r. 136, 1264 C. 1903 [2] 122). *6) 4, 5-Diphenylimidazol. Sm. 227° . HCl, H₂SO₄ (B. 35, 4139 C. 1903 [1] 295). C₁₅H₁₂N₄ *1) 4-Phenylazo-1-Phenylpyrazol. Sm. 124° (B. 36, 3669 C. 1903 [2] 1313). 23) 3,7-Dimethylakridin. Sm. 176° (171°). (2HCl, PtCl₄), IINO₃, Bichromat (B. 36, 590 C. 1903 [1] 724; B. 36, 1018 C. 1903 [1] 1268). $C_{15}H_{13}N$ 18) 3-4-Nitrophenyl]-5-Phenylpyrazol. Sm. 179° (B. 37, 1152 C. 1904 C15H13N3 [1] 1267). 19) 2-[β -2-Amidophenyläthenyl] benzimidazol. Sm. 213 ° (C. 1904 [1] 103). 20) 2-[β -3-Amidophenyläthenyl]benzimidazol $+ \frac{1}{2} \Pi_2 O$. Sm. 116° (153°) wasserfrei). HCl, (2HCl, PtCl₄) (C. 1904 [1] 103). 21) **2-**[β -**4-**Amidophenyläthenyl]benzimidazol. Sm. 225°. 2HCl (C. 1904 [1] 103). C₁₅H₁₈Cl 3) β -Chlor- $\alpha\gamma$ -Diphenylpropen. Sd. 240° u. Zers. (B. 37, 1143 C. 1904) [1] 1266). 1) β -Brom- $\alpha\alpha$ -Diphenylpropen. Sm. 48-49°; Sd. 169-170°₁₂ (B. 37, $C_{15}H_{18}Br$ 232 C. 1904 [1] 660). *1) Methyläther d. α-Phenyl-β-[4-Oxyphenyl|äthen. Sm. 135-136* (B. 37, 457 C. 1904 [1] 949; A. 333, 269 C. 1904 [2] 1392). $C_{15}H_{14}O$ *6) Dibenzylketon (B. 37, 1428 C. 1904 [1] 1355). 21) γ-Oxy-αγ-Diphenylpropen. Fl. (Am. 31, 660 C. 1904 [2] 447). 22) 6-Oxy-3-Methyl- $\alpha\alpha$ -Diphenyläthen. Sd. 187 $^{0}_{20}$ (B. 36, 4001 C. 1904 [1] 174). 23) Methyläther d. 2 - Oxy - $\alpha\alpha$ - Diphenyläthen. Sm. 35"; Sd. 166"₁₄ (B. 36, 4000 C. 1904 [1] 174). 24) Methyläther d. 4-Oxy-αα-Diphenyläthen. Sm. 75° (B. 37, 4166 C. 1904 [2] 1643). 25) 2,4'-Dimethyldiphenylketon. Sd. 316-318° (B. 36, 2025 C. 1903 [2] 376). 26) 3,4'-Dimethyldiphenylketon. Sm. 82°; Sd. 328--330° (B. 36, 2027 C. 1903 [2] 376). 27) 4-Methyl-2-Phenyl-1,2-Dihydrobenzfuran. Sm. 57 $^{\circ}$; Sd. 184°_{18} (B. 36, 4001 C. 1904 [1] 174).
28) 2,7-Dimethylxanthen. Sm. 165° (C. r. 136, 1569 C. 1903 [2] 384).
*12) ββ-Diphenylpropionsäure. Sm. 147° (Am. 31, 651 C. 1904 [2] 446). $C_{15}H_{14}O_{2}$ 43) 3-Methoxylphenyläther d. α -Oxy- α -Phenyläthen. Sd. 199-200 $^{\circ}_{16}$ (Soc. 83, 1134 C. 1903 [2] 1060) 44) Oxydimethyldiphenylketon (CH₃: CH₃: OH = 1:3:4). Sm. 145-146° (G. 33 [2] 60 C. 1903 [2] 995). 45) Methyläther d. γ -Keto- α -[2-Oxy-1-Naphtyl]- α -Buten. Sm. 171° (Bl. [3] 29, 882 C. 1903 [2] 885). *9) Dimethyläther d. 4,4'-Dioxydiphenylketon. Sm. 144° (B. 36, 654 C15 H14O8 C. 1903 [1] 768) *29) Methylester d. α - Oxydiphenylessigsäure. Sm. 73° (B. 37, 2765) C. 1904 [2] 708). *48) Dibenzylester d. Kohlensäure. Sm. 29° (B. 36, 159 C. 1903 [1] 502). 49) 1,3-Dioxy-2,4-Dimethylxanthen. Sm. 185-186° (M. 25, 326 C. 1904 [1] 1495). 50) α -Phenyl- β -[3-Oxyphenyl]akrylsäure. Fl. (B. 37, 4134 C. 1904 [2] 51) 2-Oxy-1-Methylbenzol-2-[2-Methylphenyl]äther-3-Carbonsäure. Sm. 115° (Bl. [3] 31, 267 C. 1904 [1] 1088). 52) 4-Oxy-1-Methylbenzol-4-[4-Methylphonylliii] :-3-Carbonsäure. Sm. 113—114° (C. r. 136, 1569 C. 1903

53) Aldehyd d. 3,4-Dioxybenzol-3-Methyläther-4-Benzyläther-1-Car- $C_{15}H_{14}O_{3}$ bonsäure. Sm. 63-64° (D.R.P. 65937). - *III, 75. 54) 2-Methylphenylester d. 2-Oxy-1-Methylbenzol-3-Carbonsaure. Sm. 38° (D.R.P. 46756). — *II, 919. 55) 2-Methylphenylester d. 4-Oxy-1-Methylbenzol-3-Carbonsäure. - *II, 920. Sm. 34° (D.R.P. 46756). -56) 2-Methylphenylester d. 3-Oxy-1-Methylbenzol-4-Carbonsäure. Sm. 48° (D.R.P. 46756). — *II, 922. 57) 3-Methylphenylester d. 2-Oxy-1-Methylbenzol-3-Carbonsaure. Sm. 57° (D.R.P. 46756). — *II, 919. 58) 3-Methylphenylester d. 4-Oxy-1-Methylbenzol-3-Carbonsäure. Sm. 63° (D.R. P. 46756). — *II, 920.
59) 3-Methylphenylester d. 3-Oxy-1-Methylbenzol-4-Carbonsäure. Sm. 68° (D.R.P. 46756). — *II, 922. 60) 4-Methylphenylester d. 2-Oxy-1-Methylbenzol-3-Carbonsäure. Sm. 29° (D.R.P. 46756). — *II, 919. 61) 4-Methylphenylester d. 4-Oxy-1-Methylbenzol-3-Carbonsäure. Sm. 74-75° (D.R.P. 46756). — *II, 920. 62) 4-Methylphenylester d. 3-Oxy-1-Methylbenzol-4-Carbonsäure. Sm. 79° (D.R.P. 46756). — *II, 922. 25) Methylenäther d. ε-Keto-δ-Acetyl-α-[3,4-Dioxyphenyl]-αγ-Hexadien. Sm. 105° (B. 37, 1700 C. 1904 [1] 1497).
26) Aethylester d. 3-Acetoxylnaphtalin-2-Carbonsäure. Sm. 82—83° $C_{15}H_{14}O_4$ Z. Kr. 29, 285). — *II, 989. 27) 2-Methoxylphenylester d. 2-Oxy-l-Methylbenzol-3-Carbonsäure. 2-Methoxylphenylester d. 2-Oxy-1-Reinylbenzol-3-Carbonsaure.

Sm. 60—61° (D.R.P. 57941). — *II, 919.

28) 2-Methoxylphenylester d. 4-Oxy-1-Methylbenzol-3-Carbonsaure.

Sm. 10. 11. 12. 11. 1220.

29) 2-Methoxylphenylester d. 3-Oxy-1-Methylbenzol-4-Carbonsaure.

Sm. 86° (D.R.P. 57941). — *II, 922. 30) Benzoat d. 1,2,3-Trioxybenzol-1,2-Dimethyläther. Sm. 55-57° (M. 25, 515 C. 1904 [2] 1118). *8) Acakatechin (C. 1904 [2] 439).

*9) Katechin b + 4H₂O. Sm. 96° (210° wasserfrei) (C. 1903 [1] 883;

B. 36, 101 C. 1903 [1] 397). C15H14O6 11) Cyanomaklurin. Zers. bei 250° (Soc. 67, 939; Soc. 81, 1173 C. 1902 [2] 199; C. 1904 [2] 438). — III, 684.

12) Decocacetin. Sm. 238° (J. pr. [2] 66, 412 C. 1903 [1] 527).

*24) Nitril d. α-[4-Methylphenyl]amido-α-Phenylessigsäure. Sm. 109° (B. 37, 4079 C. 1904 [2] 1722). C15H14N2 *25) Nitril d. Dibenzylamidoameisensäure. Sm. 54° (B. 36, 1199 C. 1903 [1] 1215). *27) Nitril d. α-Methylphenylamido-α-Phenylessigsäure. Sm. 63—64° (B. 37, 4085 C. 1904 [2] 1723). 30) α -Phenylamido- γ -Phenylimidopropen. Sm. 115°. HCl (B. 36, 3667 C. 1903 [2] 1312). 31) 2-Amido-3,7-Dimethylakridin. Sm. 244°. HCl (B. 36, 1025 C. 1903 [1] 1268; Soc. 85, 531 C. 1904 [1] 1525). Fl. (B. 37, 4083 C. 1904 32) Nitril d. Phenylbenzylamidoessigsäure. [2] 1723). 3) $\alpha\beta$ -Dibrom- $\alpha\beta$ -Diphenylpropan. Sm. 134—135° (127° u. Zers.) (B. 37, $C_{15}H_{14}Br_{2}$ 458 C. 1904 [1] 949; B. 36, 1496 C. 1903 [1] 1351; B. 37, 458 C. 1904 [1] 949; B. 37, 1134 C. 1904 [1] 1256). 4) $\alpha \beta$ -Dibrom - α -Phenyl- β -[4-Methylphenyl] athan. Sm. 185° (B. 35, 3967 C. 1903 [1] 31). 20) 4-Aethylbenzylidenamidobenzol. Sm. 2-3°; Sd. 208-210°₂₀ (C. r. $C_{15}H_{15}N$ **136**, 558 *C.* **1903** [1] 832). 21) $\alpha - [4 - Methylphenyl] - \beta - [6 - Methyl-2 - Pyridyl] äthen. Sm. 144 – 145°.$ (HCl, HgCl₂), (2HCl, PtCl₄), (HCl, AuCl₈), Pikrat (B. 36, 1684 C. 1903 [2] 46). 22) 3,7-Dimethyl-5,10-Dihydroakridin. Sm. 218-220° (B. 36, 1019

*15) 2,8-Diamido-3,7-Dimethylakridin. Sm. oberh. 300°. HCl (D.R.P.

C. 1903 [1] 1268).

52324; B. 36, 589 C. 1903 [1] 724).

C15H15N8

16) 2-[2-Amidobenzyliden]amido-l-Methylimidomethylbenzol. Sm. 189 $C_{15}H_{15}N_3$ bis 190°. 2 HCl (B. 37, 3653 C. 1904 [2] 1514).

*23) α-Oxy-αα-Diphenylpropan. Sm. 92° (94—95°); Sd. 170—172°,4 (C. r. 138, 154 C. 1904 [1] 577; B. 37, 231 C. 1904 [1] 660).

24) β-Oxy-αβ-Diphenylpropan. Sm. 50—51°; Sd. 175°, [B. 37, 457] $C_{15}H_{16}O$ C. 1904 [1] 949). 25) Methyläther d. 2-Oxy-αα-Diphenyläthan. Sm. 26°; Sd. 160-161°, (B. 36, 4008 C. 1904 [1] 175). 26) Phenyläther d. γ-0xy-α-Phenylpropan. Sd. 171-172°₁₁ (C. r. 138, 1049 C. 1904 [1] 1493). C15H16O2 *12) Dibenzyläther d. Dioxymethan. Sd. 280° u. ger. Zers. (Bl. [3] 27, 1217 C. 1903 [1] 225). 21) 2-Methyläther d. α , 2-Dioxy- $\alpha\alpha$ -Diphenyläthan. Sm. 75,5%; Sd. 285 bis 287° (B. 36, 4002 C. 1904 [1] 174).

12) 4,4'-Dimethyläther d. α-Oxydi[4-Oxyphenyl|methan. Sm. 72° (B. 36, 655 C. 1903 [1] 768). $C_{15}H_{16}O_3$ 13) Artemisinsäure. Sm. 135-136°. Ba (C. 1903 [2] 1377). 14) Aethylester d. 3-Oxynaphtalinäthyläther-2-Carbonsäure. Sm. 60° (Z. Kr. 29, 285). — *II, 989. 15) Verbindung (aus p-Anisol). HCl (B. 36, 650 C. 1903 [1] 768). C₁₅H₁₆O₄ *1) Di[4, 6-Dioxy-2-Methylphenyl]methan (A. 329, 302 C. 1904 [1] 793). C15H16O5 9) γ -Oxy- $\beta \varepsilon$ -Diketo- γ -Benzoyl- δ -Acetylhexan. Sm. 103° (B. 36, 322) C. 1903 [2] 941). C15H16O6 9) Methylenbismethylphloroglucin. Sm. 230° (A. 329, 279) C. 1904 [1] 796). 10) Dimethylester d. 1, 3, 5-Trimethylbenzol-2, 4-Di|Ketocarbonsäure|. Sm. 103,5—104°. — *II, 1174. *8) 1-[α -Phenylimido- α -Dimethylamidomethyl]benzol. Sm. 72° (B. 37, $C_{15}H_{16}N_2$ 2680 C. 1904 [2] 521). *17) α -Phenylhydrazon- α -[4-Methylphenyl] athan. Sm. 94—95° (B. 35, 1877 C. 1903 [2] 287). 32) α - Aethylimido - α - Phenylamido - α - Phenylmethan. Sm. 74 - 76°. $(2 \text{HCl}, \text{PtCl}_4 + 2 \text{H}_2\text{O})$ (Soc. 83, 321 C. 1903 [1] 580, 876). *1) $\alpha\beta$ -Di[Phenylhydrazon]propan. Sm. 150—15 4° (A. 335, 254 % 1904. $C_{15}H_{16}N_4$ 12) β-[4-Methylphenyl]azomethylen-α-[4-Methylphenyl]hydrazin (Dipp-Tolylformazylwasserstoff). Sm. 105° (B. 36, 1373 C. 1903 [1] 1343).
2) 2-Methyl-4-Aethyldiphenyljodoniumjodid. Sm. 139° (A. 327, 294) $C_{15}H_{18}J_{9}$ C. 1903 [2] 352). $C_{15}H_{17}N$ *6) Aethylphenylbenzylamin. Sd. 275—298°. Pikrat (A. 334, 236 C. 1904 [2] 900). *8) Methylbenzyl-2-Methylphenylamin. Sd. 167°₁₃. Pikrat (B. 37, 3898 C. 1904 [2] 1612). *7) 4-Dimethylamidobenzylidenphenylhydrazin. Sm. 148° (B. 37, 859 C15H17N3 C. 1904 [1] 1206). 18) 2-Dimethylamidobenzylidenphenylhydrazin. Sm. 74-74,5° (B. 37, 977 C. 1904 [1] 1079). 19) 4-Aethylamidobenzylidenphenylhydrazin. Sm. 178° (B. 37, 858 C. 1904 [1] 1206). 20) 4 - Methylamido - 3 - Methylbenzylidenphenylhydrazin. Sm. 124° (B. 37, 863 C. 1904 [1] 1206). C15H18O2 8) Methyläther d. 3-Keto-4-[4-Oxybenzyliden]-1-Methylhexahydrobenzol. Sm. 97° (C. r. 136, 1225 C. 1903 [2] 116).

*5) Desmotroposantonin (B. 36, 2667 C. 1903 [2] 951).

*9) Santonid. Sm. 127° (C. 1903 [2] 1067). $C_{15}H_{18}O_8$ *10) Parasantonid. Sm. 110° (C. 1903 [2] 1066). 9) Dimethylester d. α-Phenyl-α-Buten-δ-Carbonsäure-γ-Methylcar-C15H18O4 bonsäure. Sm. 70° (B. 36, 2339 C. 1903 [2] 438). C15H18O5 11) Mekoninmethylpropylketon. Sm. 91-95 (M. 25, 1054 C. 1904 [2] 1644). 12) Mekoninmethylisopropylketon. Sm. 88-91° (M. 25, 1055 C. 1904

13) Dehydrodioxyparasantonsäure. Sm. 187—188°. Ba 4- H₂O, Ag₂

[2] 1644).

(C. 1903 [2] 1447).

12) Diäthylester d. 3-Methoxylphenoxylfumarsäure. Sd. 206-207 12 $C_{15}H_{18}O_{6}$ (Soc. 83, 1132 C. 1903 [2] 1059).
*19) αα-Di[Phenylamido]propan. Fl. (A. 328, 127 C. 1903 [2] 790). $C_{15}H_{18}N_2$ 23) 4, 4'-Di-[Methylamidophenyl] methan. Sm. 56-57° (55°) (D. R. P. 68011; B. 37, 2675 C. 1904 [2] 443). 24) Di[3-Methylphenylamido]methan. Sd. 146°₁₈ (B. 36, 43 C. 1903 **|1**] 504). 25) Aethylbenzyl-4-Amidophenylamin. Sd. 225 % Oxalat (A. 334, 262 C. 1904 [2] 902). 26) Nitril d. α-Phenyl-γ-[1-Piperidyl]propen-γ-Carbonsäure. Sm. 98 bis 99° (B. 37, 4087 C. 1904 [2] 1724). 2) N,4,7 [oder N,6,7]-Trimethylcarbazolenin. Pikrat (C. 1904 [2] 343). 8) Verbidung (aus d. Verb. $C_{16}H_{19}N_4Cl$, $HCl + 2H_2O$). Sm. 118° (B. 37, $C_{15}H_{19}N$ $C_{15}H_{19}N_8$ 554 C. 1904 [1] 893).

9) Benzoat d. β -Oxy- γ -Methyl- α -oder- β -Hepten. Sd. 197—200° (Soc. 83, 151 C. 1903 [1] 72, 436). C15H20O2 83, 151 C. 1903 [1] 72, 436).

*9) i-Santonigesäure (B. 36, 2668 C. 1903 [2] 951).

*4) Santonsäure (B. 37, 258 C. 1904 [1] 642).

*5) Isosantonsäure. Sm. 152° (C. 1903 [2] 1067).

*7) Parasantonsäure. Sm. 170° (C. 1903 [2] 1067, 1446).

29) 1-Desmotroposantoninsäure. Ba (R. A. L. [5] 7 II, 322. — *II, 1046.

11) Oxyparasantonsäure. Sm. 189—190°. Ba (C. 1903 [2] 1377).

8) Dioxyparasantonsäure. Sm. 206—207° (C. 1903 [2] 1447). C₁₅H₂₀O₃ C15H20O4 $C_{15}H_{20}O_5$ C15H20O6 13) Methylenäther d. αη-Dioxy-α-[4-Isopropylphenyl]-β-Methylpropen. Sd. 154—157"₁₀ (M. 24, 258 C. 1903 [2] 243).
*14) Methylester d. Allylcamphocarbonsäure. Sm. 75—76° (C. r. 136, $C_{15}H_{22}O_2$ $C_{15}H_{22}O_{3}$ 791 C. 1903 |1| 1086). 15) Acetat d. 9-Methyl-3-Isopropenylbicyklo-[1,3,3]-Nonan-5-ol-7-on. Sd. 178—182 16 (B. 36, 250 C. 1903 [1] 514). 9) Aethylester d. $\beta\beta$ -Dioxy- β -Phenylpropiondiäthyläthersäure. Sd. 153°_{13} (C. r. 138, 207 C. 1904 [1] 659). $C_{15}H_{22}O_4$ 9) Santolsäure. Sm. 166-167°. Ba+ H₂O, Ag (G. 33 [1] 202 C. 1903 C15H22O5 [1] 45). *3) Glyko-o-Oxyphenyläthylcarbinol. Sm. 145-150° u. Zers. (B. 36, C₁₅H₂₂O₇ 2582 C. 1903 [2] 621). *4) Tetraäthylester d. R-Trimethylen-1,1,2,2-Tetracarbonsäure. Sm. C15H22O8 43°; Sd. 158—160°₁₄ (J. pr. [2] 68, 167 C. 1903 [2] 760). 2) $\alpha\beta\gamma$ -Trimethylester- $\delta\delta$ -Diäthylester d. ε -Ketohexan- $\alpha\beta\gamma\delta\delta$ -Penta-C15H22O9 carbonsäure. Sm. 102° (B. 36, 3296 C. 1903 [2] 1167). *2) Tetraacetat d. β -Methyl-d-Glykosid (C. 1903 [1] 1369). C15H22O10 5) Saponin (Ar. 241, 615 C. 1904 [1] 169). 5) d-2-Propyl-1-Benzylhexahydropyridin (N-Benzylconiin). Sd. 294 bis b) d-2-Propyl-1-Benzylnexahydropyridin (N-Benzylconim). Sd. 294 bis 296° (B. 37, 3633 C. 1904 [2] 1510). Sec. Amylidencampher. Sd. 253—260° $_{750}$ (B. 36, 2631 C. 1903 [2] 625). 4 Aethylpseudojonon (D. R. P. 150771 C. 1904 [1] 1307). Coleresen = $(C_{15}H_{24}O)_x$. Sm. 75—77° (Ar. 242, 351 C. 1904 [2] 526). 26) Taceleresen = $(C_{15}H_{24}O)_x$. Sm. 75° (Ar. 242, 363 C. 1904 [2] 527). 4 Isovalerylcampher. Sd. 141—148° $_1$ (B. 37, 762 C. 1904 [1] 1085). 10) Barringtogenitin. Sm. 179—180° (C. 1903 [2] 841). $C_{15}H_{23}N$ $C_{15}H_{24}O$ $C_{15}H_{24}O_{2}$ $C_{15}H_{24}O_{3}$ 11) Methylester d. Propylcamphocarbonsäure. Sm. 69-70° (C. r. 136, 790 *U.* **1903** [1] 1085). d. isom. Propylcamphocarbonsäure. Sm. 30° (C. r. 12) Methylester d. isom. Pro 136, 790 C. 1903 [1] 1085). 13) Isobutylester d. Camphocarbonsäure. Sd. 177°₁₉ (C. r. 136, 240 C. 1903 [1] 584). 14) d-Bornylester d. β-Acetylpropionsäure. Sd. 170—171°_{20—26} (P. Ch. S. No. 230). — III, 338. 5) Säure (aus Vetiveröl). 5) Säure (aus Vetiveröl). Ag₂ (C. r. 135, 1060 C. 1903 [1] 234). 6) Verbindung (aus Hopfenbitter). Sm. 92,5 (C. 1904 [2] 1227). 2) Directly lester d. Pulegonmalonsäure. Sm. 49; Sd. 187°₁₅ (B. 33, $C_{15}H_{24}O_4$ C₁₅H₂₄O₅ 3186 Anm.). - III, 383.

1) Atractylendibromid. Fl. (Ar. 241, 36 C. 1903 |1] 712). 1) β -Tacoresen. Sm. 82° (Ar. 242, 398 C. 1904 [2] 528).

1) Tacamaholsäure. Sm. 104-106° (Ar. 242, 397 C. 1904 [2] 528).

 ${^{\mathbf{C_{15}H_{24}Br_{2}}}_{\mathbf{C_{15}H_{25}O}}}$

 $C_{15}H_{25}O_{2}$

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C_{15}H_{25}C1
                     *2) Chlorid d. Caryophyllenhydrat. Sm. 64°; Sd. 295° (B. 36, 1038)
                           C. 1903 [1] 1135).
   C_{15}H_{25}J
                       3) Atractyljodid. Fl. (Ar. 241, 29 C. 1903 [1] 712).
                     4) Guajyljodid (Ar. 241, 43 C. 1903 [1] 713).

*7) Guajol. Sm. 91° (Ar. 241, 42 C. 1903 [1] 713).

*9) Patschoulialkohol. Sm. 56°; Sd. 266-271° (Ar. 241, 39 C. 1903 [1]
   C15H26O
                          712).
                     20) Atractylol. Sm. 59°; Sd. 290—292°_{760} (Ar. 241, 23 C. 1903 [1] 712). 21) Farnesol. Sd. 160°_{10} (D.R.P. 149603 C. 1904 [1] 975; B. 37, 1095
                           C. 1904 [1] 1065).
                     22) Galipol. Sd. 264—265° (Ar. 235, 526; 236, 392, 408). — *I
23) Gurjuresinol. Sm. 131—132° (Ar. 241, 385 C. 1903 [2] 724).
                     24) Matikocampher. Sm. 94° (B. 16, 2841 C. 1904 [2] 1125).
                     25) d-Nerolidol. Sd. 276-277° (J. pr. [2] 66, 503 C. 1903 [1] 517). -
                    26) Vetivenol. Sd. 169—170^{\circ}_{15} (C. r. 135, 1060 C. 1903 [1] 234). 27) Sesquiterpenalkohol (aus Copaivabalsam). Sm. 113,5—115^{\circ} (C. 1904
                          [2] \overline{1223}; \overline{A}r. 242, 542 O. 1904 [2] 1500).
                    28) Sesquiterpenalkohol (aus Eucalyptusöl). Sd. 247-248"718 (C. 1904 | 1 |
  C15H26O2
                     12) α-Oxy-α-Methylbutylcampher. Fl. (B. 36, 2631 C. 1903 [2] 625).
                    13) Aethylpseudojononhydrat. Sd. 198-205" (D.R.P. 150771 C. 1904
                          [1] 1307).
                    14) İ-Menthylester d. \alpha-Buten-\alpha-Carbonsäure. Sd. 152—153,5^{\circ}_{14} (A. 327,
                         173 C. 1903 [1] 1396).
                    15) 1-Menthylester d. \alpha-Buten-\delta-Carbonsäure. Sd. 139-140% (A. 327,
                         174 C. 1903 [1] 1396).
                    16) 1-Menthylester d. \beta-Buten-\alpha-Carbonsäure. Sd. 143--144,5^{\circ}_{14} (A. 327,
                         173 C. 1903 [1] 1396).
                    17) l-Menthylester d. R-Tetramethylencarbonsäure. Sd. 1480 (A. 327,
                         183 C. 1903 [1] 1396).
                    18) Valerianat d. Cyklogeraniol.
                                                                           Sd. 145--155<sub>20</sub> (D.R.P. 138144
                         C. 1903 [1] 267).
                 19) Valerianat d. Isoborneol. Sd. 136°<sub>12</sub> (U. r. 136, 239 C. 1903 [1] 584).
*16) Tributyrat d. αβγ-Trioxypropan (U. 1903 [1] 134).
23) Triäthylester d. β-Methylpentan-βγε-Tricarbonsäure. Sd. 195°<sub>40</sub>
 C_{15}H_{26}O_{6}
                        (Soc. 85, 136 C. 1904 [1] 727).
                   24) Triäthylester d. \beta-Methylpontan-\delta s \epsilon-Tricarbonsäure. Sd. 176 — 177 ^{\circ}_{10}
                   (Am. 30, 239 C. 1903 [2] 934). 25) Triäthylester d. Säure C_0H_{14}O_6. Sd. 195-205^{\circ}_{10} (III. [3] 29, 1045
                   26) Triacetat d. \delta \zeta \eta-Trioxy-\beta \delta-Dimethylheptan ((!. 1904 [2] 185).

27) Triacetal d. 0 / η-Trioxy-ρο-Dimethylneptan (C. 1904 | 2 | 185).
27) Triisobutyrat d. αβη-Trioxypropan. Sd. 282—284° (C. 1903 | 1 | 134).
*1) Spartein (Lupinidin). Sd. 325° 164. (2 HCl, PtCl<sub>4</sub> + 2 H<sub>2</sub>O), (2 HCl, AuCl<sub>8</sub>), HJ, 2 HJ, 2 H<sub>2</sub>SO<sub>4</sub>, Pikrat (C. r. 137, 194 C. 1903 | 2 | 671; Bl. [3] 29, 1135 C. 1904 [1] 293; C. 1904 [1] 731; B. 37, 2354 C. 1904 [2] 455; B. 37, 2420 C. 1904 [2] 442; Ar. 242, 412 C. 1904 [2] 782; B. 37, 3238 C. 1904 [2] 1154).
6) Atractylendihydrochlorid. Fl. (Ar. 241 28 C. 1903 [1] 719.

 C15H26N2
                    6) Atractylendihydrochlorid. Fl. (Ar. 241, 28 C. 1903 [1] 712].
 C15H26Cl2
                    7) Guajendihydrochlorid. Fl. (Ar. 241, 44 C. 1903 [1] 713).
                    8) d-Cadinendihydrochlorid. Sm. 117-118° (C. r. 135, 1058 C. 1903
                    9) Sesquiterpendihydrochlorid (aus Copaivabalsam). Sm. 116-1170
                        (Ar. 242, 546 C. 1904 [2] 1500).
C_{15} \underline{H}_{26} \underline{B} \underline{r}_{2}

    Afractylendihydrobromid. Fl. (Ar. 241, 28 C. 1903 [1] 712).
    Patschoulendihydrojodid. Fl. (Ar. 241, 40 C. 1903 [1] 712).

C_{15}H_{26}J_{2}
                    1) Sesquiterpentrihydrochlorid. Sm. 79-80° (Soc. 85, 416 C. 1904 [1]
C15H27Cl3
C<sub>15</sub>H<sub>28</sub>O
                   2) Isoamylmenthon. Sd. 138—143% (C. r. 138, 1140) C. 1904 [2] 106).
8) Valerianat d. 1-Menthol. Sd. 141% (D.R.P. 80711; B. 31, 364).—
C_{15}H_{28}O_2
C15H28O4
                  *2) Dimethylester d. Brassylsäure. Sm. 36°; Sd. 326° (G. 34 [2] 54
                        C. 1904 [2] 693).
                  *1) Dihydrospartein (C. r. 137, 196 C. 1903 [2] 671).
C15H28N
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 $C_{15}H_{80}O$ 6) ι -Keto- η -Methyltetradekan. Sd. 143—144 $_{9}^{\circ}$ (Bl. [3] 31, 1159 C. 1904 [2] 1708).

 Aldehyd d. Tetradekan-α-Carbonsäure. Sd. 185°₂₅ (C. r. 138, 699) C. 1904 [1] 1066).

13) Säure (aus Hefefett). Sm. 56° (H. 38, 5 C. 1903 [1] 1428). C 65,7 — H 11,9 — O 23,3 — M. G. 274. C15H30O2 C15H30O4

1) α-Laurinat d. αβγ-Trioxypropan. Sm. 59°; Sd. 142° (B. 36, 4341 C. 1904 [1] 434).

 $C_{15}H_{30}Br_{2}$

 Spilanthendibromid. Fl. (Ar. 241, 279 C. 1903 [2] 451).
 Diamyläther d. αs-Dioxypentan. Sd. 276—277° (C. αC. 1904 [1] 1401; C. r. 138, 1610 C. 1904 [2] 429). Sd. 276—277° (C. r. 138, 977 C15H32O2

4) s-Oxy- $\beta \vartheta$ -Dimethyl-s-Isobutylundekan. Sd. $126-129_{15}^{\circ}$ (C. r. 138, C15H32O4 154 C. 1904 [1] 577).

*2) Triisoamylamin. Salze siehe (C. r. 135, 903 C. 1903 [1] 132). $C_{15}H_{83}N$

- 15 III -

1) Acetat d. Verbindung $C_{19}H_4O_5Br_8$. Sm. 249° (B. 36, 455 C. 1903 [1] 574; Am. 31, 100 C. 1904 [1] 802). C15H6O6Br8

*2) Tetrabromyricetin (Soc. 85, 62 C. 1904 [1] 381, 729). $C_{15}H_6O_8Br_4$ $\mathbf{C}_{15}\mathbf{H}_{8}\mathbf{O}_{2}\mathbf{N}_{2}$

C 72.6 — H 3.2 — O 12.9 — N 11.3 — M. G. 248.

1) Lakton d. 3-Oxy-2-Phenyl-1, 4-Benzdiazin-2²-Carbonsäure. 201-203° (G. 34 [1] 498 C. 1904 [2] 458).

C₁₅H₈O₄Cl₂

201—203 (*I*. 34 [1] 436 *C*. 1504 [2] 4361.

2) 5, 6-Dioxy-2-Keto-1-[?-Dichlorbenzyliden]-1, 2-Dihydrobenzfuran. Sm. 210° u. Zers. (*B*. 29, 2434). — *III, 532.

1) u-Acetat d. 2,3,5,2',3',5'-Hexabrom-u,4,4'-Trioxydiphenylmethan. Sm. 208° (u. 225—226°) (*A*. 330, 79 *C*. 1904 [1] 1148).

2) Verbindung (aus d. Lakton $C_{15}H_8O_2N_2$). Sm. 266°. (2HCl, PtCl₄) (*G*. 34 [1] 499 *C*. 1904 [2] 458). $C_{15}H_8O_4Br_6$

C15H9ON3 *1) 1-Benzoy1-2,3-Diketo-2,3-Dihydroindol. Sm. 2060 (B. 36, 2764 $C_{15}H_9O_3N$

C. 1903 [2] 835). 16) Benzoat d. 1,2-Phtalylhydroxylamin (C. 1899 [2] 245). — *II, 1058. $C_{15}H_9O_4N$

1) 2-Keto-5,6-Dioxy-1-[2-Chlorbenzyliden]-1,2-Dihydrobenzfuran. Sm. 253° (B. 37, 825 C. 1904 [1] 1152). C₁₅H₉O₄Cl

3) $\alpha\beta\gamma$ -Triketo- α -Phenyl- γ -[4-Nitrophenyl] propan. Sm. 98—99° (B. 37, $C_{15}H_9O_5N$ 1532 C. 1904 [1] 1609). C 57,9 — H 2,9 — O 25,7 — N 13,5 — M. G. 311. C₁₅H₉O₅N₃

1) 4-Nitro-5-Phenyl-3-[4-Nitrophenyl]isoxazol. Sm. 1990 (A. 328,

224 C. 1903 [2] 998).
2) 2-Methyläther d. 4-Nitro-1, 2-Dioxy-9, 10-Anthrachinon. Sm. 280 bis 282° (D.R.P. 150322 C. 1904 [1] 1043). $C_{15}H_9O_6N$

3) 2-Keto-5, 6-Dioxy-1-[2-Nitrobenzyliden]-1,2-Dihydrobenzfuran.

Sm. 278° (B. 37, 824 C. 1904 [1] 1152).
4) 2-Keto-5,6-Dioxy-1-[3-Nitrobenzyliden]-1,2-Dihydrobenzfuran. Sm. 274° (219—221°) (B. 29, 2434; B. 37, 824 C. 1904 [1] 1151). -*III, 532.

5) 2-Keto-5,6-Dioxy-1-[4-Nitrobenzyliden]-1,2-Dihydrobenzfuran.
 Sm. noch nicht bei 360° (B. 37, 823 C. 1904 [1] 1151).

C 52,5 — H 2,6 — O 32,6 — N 12,2 — M. G. 343. C15H9O7N8 1) η -Keto- η -[3,5-Dinitrophenyl]- α -[3-Nitrophenyl]propen. Sm. 226° (J. ηr . [2] 69, 470 C. 1904 [2] 596). C 35,2 — H 1,8 — O 43,8 — N 19,2 — M. G. 511. 1) Aethyläther-2,4,6-Trinitrophenyläther d. 2,4,6-Trinitrophenyl

C15H9O14N7

imidodioxymethan. Sm. 222° (Soc. 85, 651 C. 1904 [2] 310).

[1] 1267).

20) 3-Oxy-2-Phenyl-1,4-Benzdiazin-22-Carbonsäure. Sm. 2320 u. Zers. NH_4 , Ba $+ 10H_2O$, o-Phenylendiaminsalz (G. 34 [1] 494 C. 1904 [2] 458). $C_{15}H_{10}O_8Br_2$ 3) 1,2-Dibrom-2-Acetyl-3,4- β -Naphtopyran. Sm. 213° (B. 36, 1974) C. 1903 [2] 377).

 $C_{15}H_{10}O_{3}Br_{6}$ 2) α -Aethyläther d. 2,3,5,2',3',5'-Hexabrom- α ,4,4'-Trioxydiphenylmethan. Sm. 189—190° (A. 330, 78 C. 1904 [1] 1148). $C_{15}H_{10}O_{4}N_{2}$ *1) 2-Nitrobenzylimid d. Benzol-1,2-Dicarbonsäure (B. 36, 807 Anm.

C. 1903 [1] 978).

*9) 4-Methylphenylimid d. 3-Nitrobenzol-1, 2-Dicarbonsäure. Sm. 152 bis 153° (C. 1903 [2] 431).

11) 5-Nitro-1-Methylamido-9,10-Anthrachinon (D.R.P. 144634 C. 1903 [**2**] 750).

12) 8-Nitro-1-Methylamido-9,10-Anthrachinon (D.R.P. 144634 C. 1903 [2] 750). 13) 3-Nitro-4-Methylphenylimid d. Benzolcarbonsäure.

(D.R.P. 141893 C. 1903 [1] 1325). $\mathbf{C_{15}H_{10}O_4N_4}$ C 58,1 - H 3,2 - O 20,6 - N 18,1 - M. G. 310.

6-[4-Nitrophenylazo]amido-1, 2-Benzpyron. Zers. 218—225° (Soc. 85, 1234 C. 1904 [2] 1124).

 $C_{15}H_{10}O_4Cl_4$ 1) α -Methyläther d. α -Oxy- β -Keto- $\alpha\beta$ -Di[3,5-Dichlor-4-Oxyphenyl]äthan. Sm. 155—156° (A. 325, 59 C. 1903 [1] 462). $\cdot C_{15}H_{10}O_{5}N_{2}$

 α-Nitro-γ-Keto-γ-Phenyl-α-[4-Nitrophenyl] propen. Sm. 164 (A. 328, 233 C. 1903 [2] 999). 5) β -Oximido- $\alpha\gamma$ -Diketo- α -Phenyl- γ -[4-Nitrophenyl]propan. Sm. 135°

(B. 37, 1534 'C. 1904 [1] 1609). C 55,2 — H 3,1 — O 24,5 — N 17,2 — M. G. 326. $C_{15}H_{10}O_5N_4$ 1) 5 - Keto - 1 - Phenyl - 3 - [3, 5 - Dinitrophenyl] - 4, 5 - Dihydropyrazol.

Sm. 227° (J. pr. [2] 69, 464 C. 1904 [2] 595). 1) 1-Oxy-9,10-Anthrachinon-1-Methyläther-6-Sulfonsäure. Na (D.R.P. C15H10O6S 145 188 C. 1903 [2] 1037).

2) 1-Oxy-9,10-Anthrachinon-1-Methyläther-7-Sulfonsäure (D.R.P. 145188 C. 1903 [2] 1038).

 $C_{15}H_{11}ON$ 41) Nitril d. α-Phenyl-β-[2-Oxyphenyl]akrylsäure. Sm. 104° (B. 37, 3165 C. 1904 [2] 983).

*3) 3-Oxy-5,6-Diphenyl-1,2,4-Triazin. Sm. 223° (B. 36, 3190 C. 1903 C15H11ON9 *7) Nitril d. Phenylazobenzoylessigsäure. Sm. 135-136° (B. 37, 2207

C. 1904 [2] 323).

10) 3-Benzylidenamido-4-Keto-3,4-Dihydro-1,3-Benzdiazin. Sm. 1290 (J. pr. [2] 69, 101 (J. 1904 [1] 730).
2) 1-Chlor-4-Methyl-2-Phenylbenzfuran. Sm. 66,5°; Sd. 194°₁₈ (B. 36, C15H1OCI

4001 C. 1904 [1] 174).

 $C_{15}H_{11}O_2N$ *26) 4 - Oxy-1-Keto-3-Phenyl-1, 2-Dihydroisochinolin. Sm. 255—257° (B. 37, 1689 C. 1904 [1] 1524). Sm. 167° (D.R.P. 144634

31) 1 - Methylamido - 9, 10 - Anthrachinon. Sm. 16' C. 1903 [2] 750; D.R.P. 156056 C. 1904 [2] 1631).

C. 1904 [1] 1267).

21) 4-Oximido-5-Keto-1,3-Diphenyl-4,5-Dihydropyrazol. Sm. 2000 (B. 36, 1135 C. 1903 [1] 1254).

22) $2-[\beta-2-Nitrophenyläthenyl]$ benzimidazol. Sm. 215° (U. 1904 [1] 102). 23) 2 - $[\beta - 3 - Nitrophenyläthenyl]$ benzimidazol. Zers. bei 220°. (C. **1904** [1] 103).

24) 2 - [β-4-Nitrophenyläthenyl] benzimidazol. Sm. 269—270° u. Zers.
 (C. 1904 [1] 103).

25) 3-[2-Oxybenzyliden]amido-4-Keto-3,4-Dihydro-I,3-Benzdiazin. Sm. 205° (*J. pr.* [2] 69, 101 *C.* 1904 [1] 730). 26) 1,5 - Diphenyl-1,2,3-Triazol-4-Carbonsäure. Sm. 164—165°. Na

 $+3\frac{1}{2}$ H₂O, Ba +5H₂O, Cu $+1\frac{1}{2}$ H₂O (B. 35, 4047 C. 1903 [1] 169). Nitril d. 2-Keto-6-Oxy-4-[3-Phenyläthyl'-2,5-Dihydropyridin-3,5-

Dicarbonsäure Hydroniummyadevan strakonindd). $\mathrm{NH_4}(U.1903[2]714)$. 28) Benzoat d. 5-Oxy-1-Phenyl-1, 2, 3-Triazol. Sm. 141-142° (A. 335, 83 C. 1904 [2] 1231).

29) s-Phenyl-3-Cyanphenylamid d. Oxalsäure. Sm. 205—206 (C. 1904 [2] 102).

- C₁₅H₁₁O₂Br₃ 2) Acetat d. 3,5,4'-Tribrom-4-Oxydiphenylmethan. Sm. 105° (A. 334, 376 C. 1904 [2] 1051).
- *2) β -Oximido- $\alpha\gamma$ -Diketo- $\alpha\gamma$ -Diphenylpropan. Sm. 143—144° (B. 37, 1531 C. 1904 [1] 1608). C₁₅H₁₁O₈N
 - *18) γ Keto γ Phenyl- α -[4-Nitrophenyl] propen. Sm. 162,5° (B. 37, 1149 *C.* **1904** [1] 1267).
 - 21) β -Nitro- γ -Keto- $\alpha\gamma$ -Diphenylpropen. Sm. 90° (A. 328, 236 C. 1903) [2] 999).
 - 22) γ-Keto-γ-Phenyl-α-[3-Nitrophenyl] propen. Sm. 145° (Soc. 83, 1377) C. 1904 [1] 164, 450).
 - 23) 4-Methylamido-1-Oxy-9,10-Anthrachinon (D.R.P. 144634 C. 1903)
 - [2] 750; D.R.P. 154353 C. 1904 [2] 1013). 24) 3-Oximido-2-Phenyl-2,3-Dihydro-1,4-Benzpyron. Sm. 158—159° u. Zers. (B. 37, 2819 C. 1904 [2] 712).
 - 25) Benzoat d. 3-Oxy-2-Keto-2, 3-Dihydroindol. Sm. 1340 (B. 37, 947 C. 1904 [1] 1217).
 - 26) 4-Methoxylphenylimid d. Benzol-1, 2-Dicarbonsäure (2 isom. Formen). Sm. 162° (B. 36, 1000 C. 1903 [1] 1131).
- $C_{15}H_{11}O_3Br$ 3) P-Brom-8-Oxy-5,7-Dimethylfluoron. Zers, bei 170-180° (M. 25, 328) C. 1904 [1] 1495).
- 11) 4-Nitrodibenzoylmethan. Sm. 160° (B. 37, 1151 C. 1904 [1] 1267). $C_{15}H_{11}O_4N$ 12) 2-Methyläther d. 4-Amido-1, 2-Dioxy-9, 10-Anthrachinon (D.R.P. 150322 C. 1904 [1] 1043).
 - 13) α -Oximido- β -Keto- $\alpha\beta$ -Diphenyläthan- β ²-Carbonsäure? Sm. 166° (B. 23, 1345). - *II, 1098.
 - 14) a-Phenylimido-2-Carboxyphenylessigsäure.
 97241 C. 1898 [2] 524). *II, 1129.
 4) Benzyläther d. Nitroisatinoxim. Sm. 234-2 Anilinsalz (D.R.P.
- C15H11O4N8 Sm. 234—235° (B. 35, 4337
 - C. 1903 [1] 293).
 5) Nitril d. 2,6-Diketo-4-[3,4-Dioxyphenyl]-1,2,3,6-Tetrahydropyridin - 3, 4 - Dimethyläther - 3, 5 - Dicarbonsäure. NH, + 21/, H, O
- (C. 1904 [2] 903).
 9) Aethylester d. 2,4,9-Triketo-2,3,4,9-Tetrahydro-ββ-Naphtindol-3-Carbonsäure. Sm. 275° u. Zers. Cu (E. Hoyer, Dissert., Berlin 1901). C15H11O5N
 - 10) Acetat d. 4-Nitro-4'-Oxydiphenylketon. Sm. 131° (B. 36, 3898 C. 1904 [1] 94).
- C15H11O6N 5) $\beta\beta$ -Dioxy- $\alpha\gamma$ -Diketo- α -Phenyl- γ -[4-Nitrophenyl]propan. Sm. 100° (B. 37, 1533 C. 1904 [1] 1609).

 6) Aldehyd d. 5-Nitro-3-Benzoyl-4-Methoxylbenzol-1-Carbonsäure.
 - Sm. 120—121° (B. 35, 4398 C. 1903 [1] 341).
- 2) γ -Oximido- β -Nitro- α -Keto- γ -[4-Nitrophenyl]- α -Phenylpropan. Sm. $C_{15}H_{11}O_6N_8$
- 136—137° u. Zers. + $\frac{1}{2}$ C₈H₆ (A. 328, 228 C. 1903 [2] 998). Nitril d. β -Imido- α -[4-Chlorphenyl]- β -Phenylpropionsäure. $C_{15}H_{11}N_2C1$ 3) Nitril Sm. 174° (J. pr. [2] 67, 388 C 1903 [1] 1357).
- $C_{15}H_{12}ON_2$ 41) 2-[4-Amidobenzyliden]-2,3-Dihydroindol (C. 1903 [1] 34).
 - · 42) 3-[4-Amidophenyl]-5-Phenylisoxazol. Sm. 155° (A. 328, 234 C. 1903 [2] 999).
 - 43) 4-Keto-2-Benzyl-3, 4-Dihydro-1, 3-Benzdiazin. Sm. 2420 (J. pr. [2] 69, 20 C. 1904 [1] 640).
- 8) Verbindung (aus 4,5-Diketo-1,3-Diphenyl-4,5-Dihydropyrazol). 98—101° (B. 36, 1136 C. 1903 [1] 1254). C₁₅H₁₂ON₄
- $C_{15}H_{12}O_2N_2$ 38) 5-Amido-l-Methylamido-9,10-Anthrachinon (B. 37, 72 C. 1904) [1] 666).
 - 39) 8-Amido-1-Methylamido-9,10-Anthrachinon (B. 37, 72 C. 1904 [1] 666).
 - 40) 4-Oxy-5-Keto-1,3-Diphenyl-4,5-Dihydropyrazol. Sm. 200-2080 (B. 36, 1136 C. 1903 [1] 1254).
 - 41) Benzyläther d. Isatinoxim. Sm. 168,5-169° (B. 35, 4336 C. 1903 [1] 293).
 - 42) Azobenzol-4-Akrylsäure. Sm. 245° u. Zers. (C. r. 135, 1117 C. 1903 [1] 286).
 - 43) Methylester d. 2-Phenylindazol-22-Carbonsäure. Sm. 730 (Bl. [3] 31, 875 C. 1904 [2] 661).

 $C_{15}H_{12}O_2Br_2$ 4) Dibromoxydimethyldiphenylketon ($CH_3:CH_3:OH=1:3:4$) (G. 33) [2] 64 *O.* **1903** [2] 996). 5) Acetat d. 4,4'-Dibrom-α-Oxydiphenylmethan. Sm. 70-72° (Am. 30. 456 C. 1904 [1] 377). 6) Acetat d. 3,5-Dibrom-4-Oxydiphenylmethan. Sm. 53° (A. 334, 375 C. 1904 [2] 1051). $C_{15}H_{12}O_{2}Br_{4}$ 1) Dimethyläther d. 3,5,3',5'-Tetrabrom-4,4'-Dioxydiphenylmethan. Sm. 150-151 ° (B. 36, 1886 C. 1903 [2] 291). $C_{15}H_{12}O_8N_2$ *1) s-Dibenzoylharnstoff. Sm. 208—209 (B. 36, 3220 C. 1903 [2] 1056). 14) α-Amido-γ-Keto-γ-Phenyl-α-[4-Nitrophenyl]propen. Sm. (B. 37, 1150 C. 1904 [1] 1267; Soc. 85, 1173 C. 1904 [2] 1216). 15) $\alpha \gamma$ -Dioximido- β -Keto- $\alpha \gamma$ -Diphenylpropan. Sm. 133,5° (B. 37, 1145) C. 1904 [1] 1266). 16) 4, 4-Dioxy-5-Keto-1, 3-Diphenyl-4, 5-Dihydropyrazol. Sm. 82° (B. 36, 1134 C. 1903 [1] 1254). 17) 4-Oxyazobenzol-2-Akrylsäure. Sm. 168° (B. 37, 4128 C. 1904 [2] 1735). 18) 4-Oxyazobenzol-3-Akrylsäure. Sm. 206° u. Zers. (B. 37, 4126 C. 1904 [2] 1735). $C_{15}H_{12}O_3Br_2$ 4) α -Acetat d. 3,5-Dibrom- α ,4-Dioxydiphenylmethan. (A. 334, 382 C. 1904 [2] 1052). 3) 6-Nitro-2-Methyl-3-[4-Nitrophenyl]-3,4-Dihydro-1,3-Benzdiazin. $C_{15}H_{12}O_4N_4$ Sm. 188—191°. HCl, HNO₃, H₂SO₄, Essigsulfons. Salz (B. 36, 3118) C. 1903 [2] 1132). 9) Nitrit d. β -Nitro- γ -Keto- α -Oxy- $\alpha\gamma$ -Diphenylpropan. Fl. (A. 328, $C_{15}H_{12}O_5N_2$ 236 C. 1903 [2] 999). 5) Dimethyläther d. 3, 3'-Dinitro-4, 4'-Dioxydiphenylketon. Sm. 205° C₁₅H₁₂O₇N₂ (G. 34 [1] 384 C. 1904 [2] 111). 2) s-Di[3-Nitrophenylamidoformyl]harnstoff. Sm. 142° u. Zers. (Soc. 81, $C_{15}H_{12}O_7N_6$ 1569 C. 1903 [1] 157). $C_{15}H_{12}O_{10}N_2$ C 47.4 - H 3.1 - O 42.1 - N 7.4 - M. G. 380.1) $\beta\beta$ -Di[?-Dinitro-4-Oxyphenyl] propan. Sm. 231—232° (C. 1904 [2]) 1737). C₁₅H₁₉NCl 3) Chlor-1-Naphtylat d. Pyridin. + FeCl₈ (J. pr. [2] 69, 129 C. 1904 1 815) 4) Chlor-2-Naphtylat d. Pyridin. + FeCl₃, 2 + PtCl₄, + AuCl₃ (J. pr. [2] **69**, 127 *O.* **1904** [1] 815). $C_{15}H_{12}NJ$ 1) Jod-2-Naphtylat d. Pyridin. Sm. 201 ° (J. pr. [2] 69, 128 C. 1904 [1] 815). 2) 2-Phenyl-3-[4-Methylphenyl]-2,3-Dihydro-1,3,4-Thiodiazol-2,5- $C_{15}H_{12}N_2S_2$ Sulfid. Sm. 205—206° u. Zers. (J. pr. [2] 67, 257 C. 1903 [1] 1265). C₁₅H₁₈ON 27) α-Amido-γ-Keto-αγ-Diphenylpropen. Sm. 97° (Soc. 85, 1181 C. 1904) [2] 1216; Soc. 85, 1323 C. 1904 [2] 1645). 28) γ -Keto- γ -[4-Amidophenyl]- α -Phenylpropen. HCl (B. 37, 392 C. 1904) [1] 657) 29) Methyl-4-Benzylidenamidophenylketon. Sm. 96° (B. 37, 392 C. 1904 [1] 657). C₁₅H₁₈ON₃ 32) 4-Amido-5-Phenyl-3-[4-Amidophenyl]isoxazol $+ \frac{1}{2}$ H₂O. Sm. 118° (A. **328**, 225 C. **1903** [2] 998).

33) Methyläther d. 5-Oxy-1,4-Diphenyl-1,2,3-Triazol. Sm. 126° (A. 335, 105 C. 1904 [2] 1232).

34) Amid d. Azobenzol-4-Akrylsäure. Sm. 228-229° (C. r. 135, 1117 C. 1903 [1] 286).

C₁₅H₁₈ON₅ 4) 2-[2-Semicarbazonmethylphenyl]indazol. Sm. 252—253° (Bl. [3] 31, 872 C. 1904 [2] 661). C15H13OC1 *1) γ-Chlor-α-Keto-αγ-Diphenylpropan. Sm. 120° u. Zers. (B. 36, 1479

'C. **1903** [1] 1349) 4) Methyläther d. β -Chlor- α -Phenyl- α -[2-Oxyphenyl] äthen. Sm. 71,5° (B. 37, 4165 C. 1904 [2] 1643).

5) Methyläther d. isom. β -Chlor- α -Phenyl- α -[2-Oxyphenyl]äthen. Sm. 50,5° (B. 37, 4166 C. 1904 [2] 1643).

6) Methyläther d. β -Chlor- α -Phenyl- α -[4-Oxyphenyl] äthen. Sm. 59 bis 60° (B. 37, 4167 C. 1904 [2] 1643).

- Methyläther d. isom. β-Chlor-α-Phenyl-α-[4-Oxyphenyl]äthen. Sm. 26—28°; Sd. 210—213° (B. 37, 4167 C. 1904 [2] 1643). C, H, OC1
- C₁₈H₁₈OBr 5) Methyläther d. β -Brom- α -Phenyl- α -[2-Oxyphenyl]äthen. Sm. 78,5° (B. 37, 4164 C. 1904 [2] 1643).
 - 6) Methyläther d. isom. β -Brom- α -Phenyl- α -[2-Oxyphenyl] äthen. Sm. 56,5° (B. 37, 4165 C. 1904 [2] 1643).
 - Methyläther d. β-Brom-α-Phenyl-α-[4-Oxyphenyl]äthen. Sm. 82,5° (B. 37, 4166 C. 1904 [2] 1643).
 Methyläther d. isom. β-Brom-α-Phenyl-α-[4-Oxyphenyl]äthen. Sm.
 - 52° (B. 37, 4166 C. 1904 [2] 1643).
- $C_{15}H_{13}O_{2}N$ β -Oximido- α -Keto- $\alpha\gamma$ -Diphenylpropan. Sm. 126° (B. 36, 3018 C. 1903 [2] 1001).
 - *31) Benzoylamid d. Phenylessigsäure. Sm. 129—130° (C. 1903 [2] 831).
 - 42) Methyl-4-[2-Oxybenzyliden]amidophenylketon. Sm. 116° (B. 37, 395 *C*. **1904** [1] 657).
 - 43) Methyl-4-[4-Oxybenzyliden]amidophenylketon. Sm. 209° (B. 37, 658 C. **1904** [1] 658).
 - 44) Methyl-4-Benzoylamidophenylketon. Sm. 205° (C. 1903 [1] 832).
 - 45) 2-Oxy-1-[α-Amidofural]naphtalin. Sm. 115°. HCl (G. 33 [1] 13 C. 1903 [1] 925).
 - 46) Methyläther d. 5-Oxy-3-Methyl-1-Phenylbenzoxazol. Sm. 980 (B. 37, 3110 C. 1904 [2] 994).
 - 47) Aethyläther d. 5-Oxy-I-Phénylbenzoxazol. Sm. 64-66° (J. pr. [2] 70, 328 C. 1904 [2] 1541).
 - 48) Aldehyd d. 2-Methylbenzoylamidobenzol-1-Carbonsäure. Sm. 78,5 bis 79° (B. 37, 983 C. 1904 [1] 1079).
 - 49) Benzoat d. γ-Oxy-β-[2-Pyridyl] propen. Sm. 60—61° (B. 37, 745
 C. 1904 [1] 1090).
 - 50) Benzoylamid d. 1 Methylbenzol 4 Carbonsäure. Sm. 112—113° (C. 1903 [2] 831).
- C₁₅H₁₈O₂N₈ 24) Dibenzoylguanidin. Sm. 215° (Ar. 241, 478 C. 1903 [2] 989) 25) 2-[α -Semicarbazonäthyl]- β -Naphtofuran. Sm. 249° (B. 36, 2867)
 - C. 1903 [2] 832). 26) 6-Cinnamylidenhydrazidopyridin-3-Carbonsäure. Sm. 263—264°
 - (B. 36, 1114 C. 1903 [1] 1184). 27) 1-[2,4-Dimethylphenyl]-1,2,3-Benztriazol-5-Carbonsäure. Sm. 230° (A. 332, 91 C. 1904 [1] 1570).
- $C_{15}H_{18}O_8N$ *13) α -Benzoylamido- α -Phenylessigsäure. Ba (B. 37, 2961 C. 1904 [2] 993).
 - β -Oximido- $\alpha\beta$ -Diphenylpropionsäure. Sm. 138—139°. Ag (J. pr.
 - [2] 55, 316). *II, 1003. 38) Aethylester d. Naphtostyril-N-Methylcarbonsäure. Sm. 86—87° (B. 35, 4221 C. 1903 [1] 166).
 - 39) Phenylamid d. 2-Acetoxylbenzol-1-Carbonsäure. Sm. 136—137° (B. 37, 3976 C. 1904 [2] 1605).
- C₁₆H₁₈O₈N₃ 15) Di[Phenylamid] d. Oximidomalonsäure. 2 isom. Formen. Sm. 141°. K, Ag (Soc. 83, 34 C. 1903 [1] 73, 441).
- 16) α Phenylhydrazid d. Phenylimidoessigsäure 2 Carbonsäure. Sm. 243° u. Zers. K, Ca $+ 8^{1}/_{2}H_{2}O$, Ba (A. 332, 232 C. 1904 [2] 38).
- $C_{15}H_{18}O_4N$ *20) Aethyläther d. 2 Nitro 4'- Oxydiphenylketon. Sm. 115° (B. 36, 3891 C. 1904 [1] 93).
 - *21) Aethyläther d. 3-Nitro-4'-Oxydiphenylketon. Sm. 79-81° (B. 36,
 - 3891 C. 1904 [1] 93). *22) Aethyläther d. 4-Nitro-4'-Oxydiphenylketon. Sm. 112° (B. 36, 3896 C. 1904 [1] 93).
 - 31) 2 [4 Oxy 3 Methoxylbenzyliden] amidobenzol -1 Carbonsäure. Sm. 172—174° (B. 37, 596 C. 1904 [1] 881).
 - 32) r-α-[Phenylamidoformoxyl]phenylessigsäure. Sm. 146° (Bl. [3] 19, 775). - *II, 923.
 - 33) 4-Methoxylphenylmonamid d. Benzol-1, 2-Dicarbonsäure. Sm. 180 bis 185° (B. **36**, 998 C. **1903** [1] 1131).
- $C_{15}H_{13}O_4N_8*23)$ Methyläther d. Benzoylimido-3-Nitrophenylamidooxymethan. Sm. 86—88° (Am. 32, 364 C. 1904 [2] 1507).

 $C_{15}H_{13}O_4N_3$ 28) Methyläther d. Phenylamido - 3 - Nitrobenzoylimidooxymethan.

Sm. 124° (C. 1904 [1] 1559). 29) α -Acetyl- α -Phenyl- β -[5-Nitro-2-Oxybenzyliden]hydrazin. Sm. 165° (B. 37, 3930 C. 1904 [2] 1595). 30) α -Acetyl- α -Phenyl- β -[3-Nitro-4-Oxybenzyliden]hydrazin. Sm. 193 bis 194° (B. 37, 3933 C. 1904 [2] 1596). 31) s-Diphenylguanidin-2,2'-Dicarbonsaure + 1/2 H₂O. Sm. 201 o u. Zers. (J. pr. [2] 69, 30 C. 1904 [1] 641). 32) α-Phenyl-β-[3-Nitrobenzyliden]hydrazidoessigsäure. Sm. 196 bis 197° (B. 36, 3883 C. 1904 [1] 26). 197° (B. 36, 3883 C. 1904 [1] 20).
33) Acetat d. α-Phenyl-β-[5-Nitro-2-Oxybenzyliden]hydrazin. Sm. 191° (B. 37, 3929 C. 1904 [2] 1595).
34) Acetat d. α-Phenyl-β-[6-Nitro-2-Oxybenzyliden]hydrazin. Sm. 128° (B. 37, 3932 C. 1904 [2] 1596).
35) Acetat d. α-Phenyl-β-[3-Nitro-4-Oxybenzyliden]hydrazin. Sm. 134-135° (B. 37, 3932 C. 1904 [2] 1596).
36) Di[Phenylamid] d. Nitromalonsäure. Sm. 141° (C. 1904 [1] 1555).
36) Acetat d. (Δ-Dinitro-4-Methyldiphenylamin. Sm. 141-142° (B. 36). $C_{18}H_{18}O_{5}N_{8}$ 10) Acetyl-2',4'-Dinitro-4-Methyldiphenylamin. Sm. $141-142^{6}$ (B. 36, 32 C. 1903 [1] 520). 8) 1-Methylester-3-[3-Oxyphenyl]esterd.4-Oxybenzol-1-Carbonsäure-C;5H18O8N . 3-Amidoameisensäure. Sm. 161° (A. 325, 325 C. 1903 [1] 770). 7) 4,6-Dinitroäthyldiphenylamin-2-Carbonsäure. Sm. 150-151 °. $C_{15}H_{18}O_6N_8$ (G. 33 [2] 329 C. 1904 [1] 278). 8) Acetat d. 4,6-Dinitro-4-Oxy-3-Methyldiphenylamin. Sm. 146—147° (B. 37, 2093 C. 1904 [2] 33).
*2) 2, 4, 6 - Trinitro - 1 - [4 - Dimethylamidophenyl]imidomethylbenzol. $C_{15}H_{18}O_6N_5$ Zers. bei 268°. + Nitrobenzol (B. 36, 960 C. 1903 [1] 969). 5) Aethyläther d. 5-Merkaptoakridin. Sm. 65°. (2HCl, PtCl₄), Pikrat C15H13NS (J. pr. [2] 68, 76 C. 1903 [2] 445).
*2) Benzyläther d. α-Cyanimido-α-Phenylamido-α-Merkaptomethan. C15H13N3S Sm. 182—183° (185—186°) (C. 1903 [2] 662; A. 331, 297 C. 1904 [2] 33).
*5) Methyläther d. 3-Merkapto-1, 5-Diphenyl-1, 2, 4-Triazol. Sm. 103-104° (J. pr. [2] 67, 226 C. 1903 [1] 1261). 6) 5-Methyl-1, 4-Diphenyl-4, 5-Dihydro-1, 2, 4-Triazol-3, 5-Sulfid. Sm. 253° (J. pr. [2] 67, 252 C. 1903 [1] 1265). C₁₅H₁₄ON₂ *41) Benzylidenhydrazid d. 1-Methylbenzol-2-Carbonsäure. Sm. 164° (J. pr. [2] 69, 370 C. 1904 [2] 534). *42) Benzylidenhydrazid d. 1-Methylbenzol-3-Carbonsäure. Sm. 1390 (J. pr. [2] 69, 371 C. 1904 [2] 534). *43) Benzylidenhydrazid d. 1-Methylbenzol-4-Carbonsaure. Sm. 2350 (J. pr. [2] 69, 371 C. 1904 [2] 534). 50) α-Imido-α-Acetylphenylamido-α-Phenylmethan. Sm. 128—129° (C. 1903 [2] 831). 51) α -Phenylimido- α -Acetylamido- α -Phenylmethan. Sm. 138-139° (C. 1903 [2] 831), 52) Carbonyl-4, 4'-Diamido-3, 3'-Dimethylbiphenyl (o-Tolidinharnstoff). Sm. 370—373° (M. 25, 386 C. 1904 [2] 320).
53) Methyläther d. 2-[2-Oxymethylphenyl]indazol (C. r. 137, 523 C. 1903 [2] 1061). 54) Nitril d. α -Phenylamido- α -[4-Oxyphenyl] essigmethyläthersäure. Sm. 104—105° (B. 37, 4085 C. 1904 [2] 1723). Methyläther d. $\alpha\beta$ -Dichlor- α -Phenyl- β -[2-Oxyphenyl]äthan. Sm. 90° (B. 37, 4165 C. 1904 [2] 1643). Methyläther d. $\alpha\beta$ -Dibrom- α -Phenyl- β -[4-Oxyphenyl]äthan. $C_{15}H_{14}OCl_2$ 1) Methyläther Methyläther d. $\alpha\beta$ -Dibrom- α -Phenyl- β -[4-Oxyphenyl]äthan. Sm. 177° (A. 333, 270 C. 1904 [2] 1392). C₁₅H₁₄OBr₂ *1) Methyläther Aethyläther d. 4,4'-Dibrom-α-Oxydiphenylmethan.
 (Am. 30, 461 C. 1904 [1] 377). $\begin{array}{c} C_{15}H_{14}O_2N_2 & *6) & Di[Benzoylamido] methan. & Sm. & 218° (B. 37, 4097 \ C. 1904 \ [2] \ 1726). \\ *59) & 2-Oxybenzylidenhydrazid & d. 1-Methylbenzol-2-Carbonsäure. \end{array}$ Sm. 166° (J. pr. [2] 69, 370 C. 1904 [2] 534).
*60) 2-Oxybenzylidenhydrazid d. 1-Methylbenzol-4-Carbonsäure. Sm. 197° (J. pr. [2] 69, 371 C. 1904 [2] 534). 74) Methyläther d. α-Benzoylamido-α-Phenylimido-α-Oxymethan.

Ag (C. 1904 [1] 1559).

- $C_{15}H_{14}O_2N_2$ 75) α -Acetyl- α -Phenyl- β - $_1$ 4-Oxybenzyliden]hydrazin. Sm. 182° (B. 36, 3974 *C.* **1904** [1] 163).
 - 76) α-Phenyl-β-Benzylidenhydrazidoessigsäure. Sm. 165-166° (B. 36, 3883 C. 1904 [1] 26).
 - 77) Methylester d. Phenylimidophenylamidoessigsäure. Sm. 65-66°. (2 HCl, PtCl₄) (Soc. 85, 991 C. 1904 [2] 831).
 - 78) Acetat d. 2-Oxymethylazobenzol. Sm. 39-40° (C. r. 138, 1427 C. 1904 [2] 229; Bl. [3] 31, 868 C. 1904 [2] 661).
 79) s-Phenyl-4-Methylphenylamid d. Oxalsaure. Sm. 206° (A. 332, 267)
 - C. 1904 [2] 700).
- C₁₅H₁₄O₂N₄ 13) Phenylhydrazid-Benzylidenhydrazid d. Oxalsäure. Sm. 249-250° (B. 37, 2426 C. 1904 [2] 341).
- C₁₅H₁₄O₂Br₂ 1) 3,4-Methylenäther d. $\alpha\beta$ -Dibrom- α -Phenyl- β -[3,4-Dioxyphenyl]-äthan. Sm. 188° (B. 37, 1432 C. 1904 [1] 1351). 2) α -Aethyläther d. 3,5-Dibrom- α ,4-Dioxydiphenylmethan. Sm. 85—86° (A. 334, 382 C. 1904 [2] 1052).
- C₁₅H₁₄O₃N₂ 61) 3-Nitro-4'-Dimethylamidodiphenylketon. Sm. 173° (D.R.P. 42853). - *III, *148.*
 - 62) Phenoxazinderivat (aus 2-Amido-3,5-Dioxy-1-Methylbenzol-5-Methyläther). Sm. 253° (256—260°). HCl, HBr (B. 30, 1107; J. pr. [2] 70, 366 C. 1904 [2] 1565). *II, 583.
 - 63) 4-Oxyazobenzol-2-Propionsäure. Sm. 146° (B. 37, 4130 C. 1904 [2] 1735).
 - 64) 4-Oxyazobenzol-3-Propionsäure. Sm. 130° (B. 37, 4129 C. 1904) [2] 1735).
 - 65) 6-Oxyazobenzol-3-Propionsäure. Sm. 140—141° (B. 37, 4131 C. 1904 [2] 1735).
 - 66) 3-Nitro-2,4-Dimethylphenylamid d. Benzolcarbonsäure. Sm. 236° (G. 33 [2] 281 C. 1904 [1] 265).
 - 67) 5-Nitro-2, 4-Dimethylphenylamid d. Benzolcarbonsäure. Sm. 200° (G. 33 [2] 281 C. 1904 [1] 265).
 68) Benzoat d. αβ-Phenylnitrosamido-α-Oxyäthan. Fl. (A. 332, 210 C. 1904 [2] 211).
 69) Methylester d. 2-Oxymethylazobenzol-2'-Carbonsäure (C. r. 138, 1357 C. 1904 [9] 120).

 - 1277 O. 1904 [2] 120).
 70) Phenylamid d. Phenylamidoformoxylessigsäure. Sm. 145—147° (Bl. [3] 29, 122 C. 1903 [1] 564).
- *7) s-Di[Phenylamidoformyl]harnstoff. Sm. 211° (C. 1904 [2] 29). $C_{15}H_{14}O_8N_4$
 - 10) 4,4'-Di [Methylnitrosamidophenyl] keton. Sm. 228-229 (É. 37, 2677 C. 1904 [2] 444).
 - 11) 5-Nitro-2-Acetylamido-l-Phenylhydrazonmethylbenzol. Sm. 2290 (M. 24, 97 C. 1903 [1] 921).
 - 12) 6-Nitro-3-Acetylamido-1-Phenylhydrazonmethylbenzol. Sm. 247° (M. 24, 6 C. 1903 [1] 775).
 - 13) 3-Nitro-4-Acetylamido-1-Phenylhydrazonmethylbenzol. Sm. 209°
 - (M. 24, 91 C. 1903 [1] 921). 14) Phonylnitrosamid d. β -Pho β -Phenylureïdoessigsäure. Sm. 131° u. Zers.
- (J. pr. [2] 70, 250 C. 1904 [2] 1463). C₁₅H₁₄O₄N₂ *25) Di[Phenylamido] methan-2, 2'-Dicarbonsäure. Sm. 150—158° ti. Zers. (157°) (B. 36, 50°C. 1903 [1] 505; D.R.P. 138393 C. 1903 [1] 372).
 - 29) 2'-Nitro-2,4-Dimethyldiphenylamin-4'-Carbonsäure. Sm. 213° (A. 332, 90 C. 1904 [1] 1570).
 - 30) Di[Phenylamido] methan-3,3'-Dicarbonsäure. Sm. 119-129° (B. 36, 51 *C.* **1903** [1] 505).
 - 31) Di[Phenylamido]methan-4, 4'-Dicarbonsäure. Sm. 167-168° (B. 36, 52 °C. 1903 [1] 505).
 - 32) Aethylester d. Acetyldicyanbenzoylessigsäure. Sm. 111° (A. 332, 153 C. 1904 [2] 192).
 - 33) 2-Phenylamidoformiat d. 2-Oximido-5-Oxy-1-Keto-1, 2-Dihydrobenzol-5-Aethyläther (J. pr. [2] 70, 324 C. 1904 [2] 1541).
- 4) Benzylidenacetophenonhydrosulfonsäure. K $+ 2^{1}/_{2}H_{2}O$ (B. 37, C15H14O4S 4049 C. 1904 [2] 1648).
 - 5) β -Phenylsulfon- β -Phenylpropionsäure. Sm. 173°. Ba (Am. 31, 174 C. 1904 [1] 876).

- 5) 1-Benzoylamido-2, 5-Dimethylpyrrol-3, 4-Dicarbonsäure. C15H14O5N0
 - bis 232° u. Zers. K + ½ H₂O (B. 35, 4319 C. 1903 [1] 336).
 6) Dimethylester d. αγ-Dicyan-β-Oxy-β-Phenylpropan-αγ-Dicarbonsäure. Sm. 162° (Bl. [3] 31, 529 C. 1904 [1] 1554).
- $C_{15}H_{14}O_5N_4$ 12) 3,3'-Dinitro-4,4'-Di[Methylamido|diphenylketon. Sm. 212° (G. 34)
 - [1] 386 C. 1904 [2] 111). 13) 6-Nitro-2-Oxy-2-Methyl-3-[4-Nitrophenyl]-1,2,3,4-Tetrahydro-1,3-Benzdiazin. Sm. 243-246° (B. 35, 741 C. 1902 [1] 753; B. 36, 3120 C. 1903 [2] 1132).
- 2) 4-Benzolsulfonat d. 3,4-Dioxybenzol-3-Aethyläther-1-Carbonsäure-C₁₅H₁₄O₅S aldehyd. Sm. 72° (D.R.P. 81352). — *III, 76.
 3) 4-[4-Methylbenzol]sulfonat d. 3,4-Dioxybenzol-3-Methyläther-1-
 - Carbonsäurealdehyd. Sm. 115° (D.R.P. 80498). *III, 76.
- 2) $\beta\beta$ -Di[P-Nitro-4-Oxyphenyl] propan. Sm. 133°. Na₂ (C. 1904 [2] 1737). $C_{15}H_{14}O_6N_2$
 - 3) Dimethyläther d. 3,3'-Dinitro-4,4'-Dioxydiphenylmethan. Sm. 1600 (D.R.P. 140690 C. 1903 [1] 1010).
- 9) 3,4-Dimethyldiphenyljodoniumcyanid. Sm. 104-108° (A. 327, 281 C₁₅H₁₄NJ C. 1903 [2] 351).
- $C_{15}H_{14}N_2S$ 13) 2-Phenylimido-5-Phenyltetrahydrothiazol. Sm. 113,5—115°. Pikrat (B. 37, 2485 C. 1904 [2] 420).
 - 14) 1-[2-Methylphenyl]amido-4-Methylbenzthiazol. Sm. 136-137° (B. 36, 3129 C. 1903 [2] 1070).
 - 15) 1-[4-Methylphenyl]amido-5-Methylbenzthiazol. Sm. 162° (B. 36, 3131 C. 1903 [2] 1070).
- *33) i-α-Benzoylamido-α-Phenyläthan. Sm. 120° (Soc. 83, 1152 C. 1903 $C_{15}H_{15}ON$ [2] 1061).
 - *76) Phenylbenzylamid d. Essigsäure. Sm. 58° (C. r. 139, 300 C. 1904 [2] 703).
 - 92) Methyläther d. α -Benzylimido- α -Oxy- α -Phenylmethan. Sd. 178 bis 180°₁₁ (Soc. 83, 328 C. 1903 [1] 581, 876).
 - 93) anti- α -Oximido-2, 4'-Dimethyldiphenylmethan. Sm. 122° (B. 36, 2026 C. 1903 [2] 376).
 - 94) anti- α -Oximido-3, 4'-Dimethyldiphenylmethan. Sm. 118—119° (B. 36, 2027 C. 1903 [2] 376).
 - 95) syn α Oximido 3, 4'-Dimethyldiphenylmethan. Sm. 143° (B. 36. 2027 C. 1903 [2] 376).
 - 96) 5-Keto-3,4-Dimethyl-2-[η-Phenylallyliden]-2,5-Dihydropyrrol. Sm. 248° (A. 306, 246). *II, 991.
 97) 4-Methylphenylamid d. 1-Methylbenzol-2-Carbonsäure. Sm. 144°
 - (B. 36, 2027 C. 1903 [2] 376).
 - 98) Methylbenzylamid d. Benzolcarbonsäure. Sd. 213-214°, (Soc. 83, 408 C. 1903 [1] 833).
 - 99) Methyl-2-Methylphenylamid d. Benzolcarbonsäure. Sm. 65-66° Soc. 83, 408 C. 1903 [1] 833).
 - 100) Methyl-4-Methylphenylamid d. Benzolcarbonsäure. Sm. 46-48° (Soc. 83, 408 C. 1903 [1] 833).
- *1) 4-Acetylamido-1-Phenylhydrazonmethylbenzol. Sm. 209° (M. 24, C15H15ON3 89 C. 1903 [1] 921).
 - *18) Phenylamid d. a-Phenylhydrazonpropionsäure. Sm. 1740 (A. 335, 97 C. 1904 [2] 1232).
 - 27) α -Benzylidenamido- α -Methyl- β -Phenylharnstoff. Sm. 108° (B. 37, 2323, 2325 C. 1904 [2] 312).
 - 28) α -Benzylidenamido- α -Benzylharnstoff. Sm. 153—154° (B. 37, 2325 O. **1904** [2] 312).
 - 29) 3-Keto-4,5,6-Trimethyl-2-Phenyl-2,3-Dihydro-5,1,2-Benztriazol + 3H₂O. Sm. 122° (144° wasserfrei) (B. 36, 518 C. 1903 [1] 649).
 - 30) α-Phenyläthylidenhydrazid d. 2-Amidobenzol-1-Carbonsäure. Sm. 165° (J. pr. [2] 69, 99 C. 1904 [1] 730).
- $C_{15}H_{15}O_2N$ *44) Benzylamid d. 4-Oxybenzolmethyläther-1-Carbonsäure. Sm. 1310 (B. 37, 4138 C. 1904 [2] 1714).
 - 64) 1-Aethyläther d. 4-[2-Oxybenzyliden]amido-1-Oxybenzol. Sm. 94° (90-91,5°) (D. R. P. 79814, 79857). - *III, 52.

- 65) β -Benzoylamido- α -Oxy- α -Phenyläthan. Sm. 144—145,5° (B. 37, 2484) $C_{15}H_{15}O_2N$ C. **1904** [2] 420).
 - 66) N Benzoyl β Oxyathylphenylamin. Sm. 142-146° (A. 332, 212) C. 1904 [2] 211).
 - 67) Benzoat d. β-Phenylamido-α-Oxyäthan. Sm. 77°. HCl (A. 332, 209 C. 1904 [2] 211).
 - 68) Phenylamidoformiat d. 2-Oxymethyl-1-Methylbenzol. Sm. 79° (C. r. 137, 574 C. 1903 [2] 1117).
- *3) α -Acetylamido- $\alpha\beta$ -Diphenylharnstoff. Sm. 184° (B. 36, 1365 C. 1903 $C_{15}H_{15}O_2N_3$ [1] 1341).
 - *4) α Acetylphenylamido β Phenylharnstoff. Sm. 192° (B. 36, 1369) C. **1903** [1] 1342).
 - 39) Phenylamid d. β-Phenylureïdoessigsäure. Sm. 214° (J. pr. [2] 70, 249 C. 1904 [2] 1463).
 40) Phenylamid d. 4-Aethoxylphenylazoameisensäure. Sm. 139—140°
 - (A. 334, 180, 184 C. 1904 [2] 834).
 - 41) Di[Phenylamid] d. Amidomalonsäure. Sm. 141-1420 (C. 1904 [1] 1555).
- 6) Amíd d. s-Diphenylguanidin-2, 2'-Dicarbonsäure + H₂O. Sm. oberh. 290° (wasserfrei). Pikrat (J. pr. [2] 69, 37 C. 1904 [1] 641). $C_{15}H_{15}O_2N_5$
- $C_{15}H_{16}O_8N$ *27) 3-Methyläther d. 6-Benzoylamido-3, 5-Dioxy-l-Methylbenzol. Sm.
 - 219—220° (B. 36, 891 C. 1903 [1] 966). 32) Dimethyläther d. 2'-Amido-2,4-Dioxydiphenylketon. Sm. 128° (B. 35, 4280 C. 1903 [1] 333).
 - 33) 1-Aethyläther d. 4-Benzoylamido-1, 3-Dioxybenzol. Sm. 187° (J. pr.
 - [2] 70, 327 C. 1904 [2] 1541). 34) 4-Methoxylphenylamid d. 4-Oxybenzolmethyläther-1-Carbonsäure. Sm. 202° (B. 36, 654 C. 1903 [1] 768).
 - 35) 4-Methoxylphenylimid d. 1, 2, 3, 4-Tetrahydrobenzol-5, 6-Dicarbonsäure (2 isom. Formen). Sm. 108° (B. 36, 1003 C. 1903 [1] 1132).
- $C_{15}H_{15}O_{8}N_{3}$ 11) Methyläther d. ?-Nitro- α -Methyl- α -Phenyl- β -[4-Oxybenzyliden]hydrazin. Sm. 159—159,5° (B. 36, 372 C. 1903 [1] 577).
 - 12) Methyläther d. α -Methyl- α -Phenyl- β -[α -Nitro-4-Oxybenzyliden]-hydrazin. Sm. 104,5—105,2° (B. 36, 363 C. 1903 [1] 577).
 - 13) αγ-Diphenylsemicarbazidoessigsäure. Sm. 203—204 u. Zers. (B. 36, 3886 C. 1904 [1] 27).
- 9) Aethyl-2',4'-Dinitro-2-Methyldiphenylamin. Sm. 114° (J. pr. [2] $C_{15}H_{15}O_4N_8$
 - 68, 258 C. 1903 [2] 1064). 10) Aethyl-2', 4'-Dinitro-4-Methyldiphenylamin. Sm. 120° (J. pr. [2]
 - **68**, 256 C. **1903** [2] 1064). 11) P-Nitroäthylbenzyl-4-Nitrophenylamin. Sm. 71° (A. 334, 256 C. 1904)
 - [2] 901). 12) Dimethyläther d. 5-Nitro-3,4-Dioxy-1-Phenylhydrazonmethylbenzol. Sm. 108—110° (B. 35, 4399 C. 1903 [1] 341).
- 5) 2, 3-Dioxyphenylester d. 4-Aethoxylphenylamidoameisensäure. Sm. 162° (B. 37, 110 C. 1904 [1] 584).
 4) Diäthylester d. Phtalylamidomalonsäure. Sm. 73,8—74°. Na (C. 1903 Diathylester). C₁₅H₁₅O₅N
- C₁₅H₁₅O₆N [2] 33).
- 2) 4,6-Dinitro-5-Methylnitramido-2,4'-Dimethyldiphenylamin. Sm. $C_{15}H_{15}O_6N_5$ 1849 (J. pr. [2] 67, 525 C. 1903 [2] 239).
- 1) α -[2-Carboxybenzoyl]amidobutan- $\alpha\alpha\delta$ -Tricarbonsäure (C. 1903 [2] 33). C 51,0 - H 4,2 - O 40,8 - N 4,0 - M. G. 353. $C_{15}H_{15}O_9N$
- 3) $\alpha \beta$ -Dibrom- α -[4-Methylphenyl]- β -[6-Methyl-2-Pyridyl]äthan. $C_{15}H_{15}NBr_2$
- 154° (B. 36, 1684 C. 1903 [2] 46). 3) Dibenzylamidodithioameisensäure. Dibenzylaminsalz (B. 37, 3236 C15H15NS2 C. 1904 [2] 1153).
- 5) 5-Chlormethylat d. 3,8-Dimethyldiphenazon. $2 + \text{ZnCl}_2$ (B. 37, $C_{15}H_{15}N_2Cl$ 27 C. 1904 [1] 523).
- 6) α -Benzylidenamido- α -Methyl- β -Phenylthioharnstoff. Sm. 132° (B. 37, C₁₅H₁₅N₃S 2322 C. 1904 [2] 311).
 - 7) α-Benzylidenamido-β-Methyl-α-Phenylthioharnstoff. Sm. 151—152° (B. 37, 2331 C. 1904 [2] 314).

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    Methyläther d. α-Phenylimido-α-[β-Phenylthioureïdo]-α-Merkaptomethan. Sm. 101° (Δm. 30, 176 C. 1903 [2] 872).
    s-Di[2-Methylphenyl]harnstoff. Sm. 250° (M. 25, 378 C. 1904 |2] 320).

 C, H, N, S,
 C15H16ON2
                *8) s-Di[3-Methylphenyl]harnstoff. Sm. 221° (M. 25, 382 C. 1904 | 2 | 320).
               *38) Methyläther d. \alpha-Phenylhydrazon-\alpha-[2-Oxyphenyl]äthan. Sm. 1140
               (B. 36, 3589 C. 1903 [2] 1365).
*45) Aethyläther d. 4'-Oxy-2-Methylazobenzol (B. 36, 3859 C. 1904 [1] 91).
                79) Aethylbenzyl-4-Nitrosophenylamin. Sm. 61-62°. HCl (A. 334)
                    238 C. 1904 [2] 900).
                80) 4,4'-Di[Methylamidophenyl]keton. Sm. 130°. (2HCl, PtCl.) (B. 37.
                    2677 C. 1904 [2] 443).
                81) \beta-Benzoyl-\alpha-Aethyl-\alpha-Phenylhydrazin. Sm. 168° (C. 1903 [1] 1128:
                    B. 35, 4189 C. 1903 [1] 143)
                82) Methyläther d. \alpha-Methyl-\alpha-Phenyl-\beta-[4-Oxybenzyliden]hydrazin.
                    Sm. 113,5-114° (B. 36, 363 C. 1903 11 577)
                83) Methyläther d. polym. \alpha-Methyl-\alpha-Phenyl-\beta-[4-Oxybenzyliden]-
                    hydrazin = (C_{15}H_{16}ON_2)_x. Sm. 106,5—108,5° (B. 36, 369 C. 1903 [1]
                    577).
               84) 5-Oxy-4-Phenylhydrazonmethyl-1,2-Dimethylbenzol. Sm. 1900
                    (B. 35, 4104 C. 1903 [1] 149).
               85) 4-Oxy-5-Phenylhydrazonmethyl-1, 3-Dimethylbenzol.
                                                                                       Sm. 105°
                    B. 35, 4104 C. 1903 [1] 149).
               86) 3-Oxy-2-Phenylhydrazonmethyl-1, 4-Dimethylbenzol. Sm. 1480
                   (B. 35, 4104 C. 1903 [1] 149).
               87) 5-Oxy-2-Phenylhydrazonmethyl-1, 4-Dimethylbenzol. Sm. 1640
                   (B. 35, 4105 C. 1903 [1] 149).

88) Phenylamid d. β-Phenylamidopropionsäure. Sm. 92-93°. HCl (B. 36, 1264 C. 1903 [1] 1219).
89) Phenylhydrazid d. β-Phenylpropionsäure. Sm. 116-117° (B. 36, 1264 C. 1903 [1] 1219).

                   1101 C. 1903 [1] 1140).
C<sub>15</sub>H<sub>16</sub>O<sub>2</sub>N<sub>2</sub> *43) Aethylphenyl-3-Nitrobenzylamin.
                                                             Sm. 69°. HCl, Pikrat (A. 334,
                   243 C. 1904 [2] 901).
              45) Aethylbenzyl-2-Nitrophenylamin.
                                                             Fl. (2HCl, PtCl<sub>4</sub>) (A. 334, 252
                   C. 1904 [2] 901).
              46) Aethylbenzyl-4-Nitrophenylamin.
                                                            Sm. 63° (A. 334, 258 C. 1904
                  [2] 902).
              47) Aethylphenyl-2-Nitrobenzylamin.
                                                             Sm. 66°. HCl, (2 HCl, PtCl<sub>4</sub>)
                   A. 334, 248 C. 1904 [2] 901).
              48) Aethylphenyl-4-Nitrobenzylamin.
                                                            Sm. 67° (A. 334, 247 C. 1904
                  [2] 901).
              49) Methyläther d. \beta-[4-Oxybenzoyl]-\alpha-Methyl-\alpha-Phenylhydrazin. Sm.
                  165—166,5° u. Zers. (B. 36, 366 C. 1903 [1] 577).
              50) 2-Amido-2, 4-Dimethyldiphenylamin-4'-Carbonsäure. Sm. 179°
                  (A. 332, 90 C. 1904 [1] 1570).
C_{15}H_{16}O_2N_4 19) 4,4'-Di[Methylnitrosamidophenyl]methan. Sm. 97—98° (B. 37, 2675)
                   C. 1904 [2] 443).
              20) α-Phenylureïdó-α-Methyl-β-Phenylharnstoff. Sm. 204° (B. 37, 2324
                   C. 1904 [2] 312).
              21) 2-Dimethylamido-1-[4-Nitrophenylhydrazon]methylbenzol. Sm. 190,5—191° (B. 37, 977 C. 1904 [1] 1079).
              22) 5-Nitro-2-Dimethylamidobenzylidenphenylhydrazin.
                  (M. 25, 369 C. 1904 [2] 322).
              23) Phenylhydrazid d. \beta-Phenylureïdoessigsäure. Sm. 227° (J. pr. [2]
                  70, 251 C. 1904 [2] 1464).
C<sub>15</sub>H<sub>16</sub>O<sub>3</sub>N<sub>2</sub> 21) 4'-Dimethylamido-4-Oxydiphenylamin-3-Carbonsäure. Sm. 175
                  bis 177° (D.R.P. 140733 C. 1903 [1] 1011).
              22) Verbindung (aus d. Verb. C<sub>15</sub>H<sub>14</sub>O<sub>5</sub>N<sub>2</sub>). 2HCl (J. pr. [2] 70, 372
                  C. 1904 [2] 1566).
               3) 4,6-Dinitro-5-Methylamido-2,4'-Dimethyldiphenylamin. Sm. 164°
C_{15}H_{16}O_4N_4
                  (J. pr. [2] 67, 537 C. 1903 [2] 239).
C_{15}H_{16}O_4S_2
               8) α-Phenylsulfon-α-Benzylsulfonäthan. Sm. 144° (B. 36, 301 C. 1903
                  [1] 500).
               9) \alpha-Aethylsulfon-\alpha-Phenylsulfon-\alpha-Phenylmethan. Sm. 155—156°
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(B. 36, 301 C. 1903 [1] 500).

3) Diamid d. δ -Keto- δ -Phenyl- β -Buten- $\alpha\beta\gamma$ -Tricarbonsäuremonoäthylester. Sm. 185–186° (Soc. 69, 1385; 77, 805). — *II, 1200. C 54,2 — H 4,8 — O 24,1 — N 16,9 — M. G. 332. C15H16O5N9 $C_{15}H_{16}O_5N_4$ 1) Verbindung (aus 6-Methyl-3-Phenyl-1,4-Dihydro-1,2 Diazin-1,5-Dicarbon-säure-5-Aethylester-1-Amid). Sm. 270° u. Zers. (A. 331, 313 C. 1904 2) 5-Amido-1,2,4-Trimethylbenzol + 1,3,5-Trinitrobenzol. Sm. 1150 C, H, O, N, (Soc. 85, 239 C. 1904 [1] 1006).

1) Benzylidenfurfurylidenbishydrosulfonsäure. $K_2 + 2H_2O$ (B. 37, C, H, O, S, 4056 C. 1904 [2] 1649). **7) s-Di[2-Methylphenyl]thioharnstoff. Sm. 157° (153—154°) (B. 36, 3847 C. 1904 [1] 89; C. r. 139, 451 C. 1904 [2] 1114).

*8) s-Di[3-Methylphenyl]thioharnstoff. Sm. 120—121° (C. r. 139, 451 $C_{15}H_{16}N_2S$ C. 1904 [2] 1114). *9) s-Di[4-Methylphenyl]thioharnstoff. Sm. 176° (178—179°) (B. 36, 3847 C. 1904 [1] 89; C. r. 139, 451 C. 1904 [2] 1114). 3) 2-Chlor-4-Dimethylamidobenzylidenphenylhydrazin. C15H16N8Cl (B. 37, 864 C. 1904 [1] 1207). 3) 2-Methyl-4'-Aethyldiphenyljodoniumchlorid. Sm. 165°. 2 + PtCl, C15H16ClJ (A. 327, 294 C. 1903 [2] 352). 2) 2-Methyl-4'-Aethyldiphenyljodoniumbromid. Sm. 150° (A. 327, 294 C15H18BrJ C. 1903 [2] 352). *5) α-Oxy-4-Dimethylamidodiphenylmethan. Sm. 69-70° (B. 37, 1742) C15H17ON C. 1904 [1] 1599). *20) Phenylamid d. a-Camphylsäure. Sm. 111-1120 (Soc. 83, 850 C. 1903 [2] 572). 34) 4'-Dimethylamido-4-Oxydiphenylmethan. Sm. 108-109° (A. 334, 339 C. 1904 [2] 989). 35) 4-[2-Oxybenzyl]amido-1,3-Dimethylbenzol. Sm. 1140 (Ar. 240, 687 C. 1903 [1] 395). 15) 4'-Aethylamido-2,4-Dioxydiphenylmethan. Sm. 154-155° (M. 23, C,5H,7O,N 995 C. 1903 [1] 289). 16) 1-Aethyläther d. 4-[2-Oxybenzyl]amido-1-Oxybenzol. Sm. 145 bis 146° (Ar. 240, 683 C. 1903 [1] 395).

17) Acetat d. 2-Methyläthylamido-1-Oxynaphtalin. Sd. 212—215° 40 (Soc. 83, 761 C. 1903 [1] 1419 C. 1903 [2] 448). 6) Aethyläther d. β-[4-Oxyphenyl]amido-α-Phenylharnstoff: Sm. 137—138° u. Zers. (A. 334, 181 C. 1904 [2] 834).
 2) 1-Amidd. 6-Methyl-3-Phenyl-1,4-Dihydro-1,2-Diazin-1,5-Dicarbon-·C₁₅H₁₇O₂N₈ C15H17O8N8 säure-5-Aethylester. Sm. 254,5° (A. 331, 312 C. 1904 [2] 45). 10) Methylester d. i- α -[1,2-Phtalyl]amidopentan- α -Carbonsäure. Sm. 65,5—66° (B. 37, 1695 C. 1904 [1] 1525). $C_{15}H_{17}O_4N$ Aethylester d. α-Phtalylamidoisovaleriansäure. Sd. 332—337°₇₆₃
 (B. 37, 1694 C. 1904 [1] 1525). 12) 4-Methoxylphenylmonamid d. 1,2,3,4-Tetrahydrobenzol-5,6-Dicarbonsäure. Sm. 150—155° (B. 36, 999 C. 1903 [1] 1131).
3) Aethylester d. α-[4-Aethoxylphtalyl]amidopropionsäure. Sm. 78° C15H17O5N (B. 37, 1978 C. 1904 [2] 237). 21 23 C 48,0 — H 4,5 — O 21,3 — N 26,1 — M. G. 375. $C_{15}H_{17}O_5N_7$ 1) Azid d. Benzoyltri [Amidoacetyl] amidoessigsäure. Sm. 245-258° (J. pr. [2] 70, 87 C. 1904 [2] 1034).
*1) ββ-Diphenoxylisopropylphosphorigesäure. Ca + 2H₂O, Anilinsalz, p-Toluidinsalz (Soc. 83, 1137 C. 1903 [2] 1059).
C 55,7 — H 5,3 — O 34,7 — N 4,3 — M. G. 323.
1) 3,5-Diacetat d. 2-Diacetylamido-1,3,5-Trioxybenzol-1-Methyläther. $C_{15}H_{17}O_5P$ $C_{15}H_{17}O_7N$ Sm. 127-129° (M. 23, 953 C. 1903 [1] 285). C 50.7 - H 4.8 - O 40.6 - N 3.9 - M. G. 355.C15H17O9N 1) Diäthylester d. Mono[8-Nitrobenzoyl] weinsäure. Sm. 113,5° (Soc. 83, 170 C. 1903 [1] 389, 628).

*7) α -[4-Methylphenyl] amido- β -Benzylthioharnstoff. Sm. 120—121°

(J. pr. [2] 67, 258 Anm. C. 1903 [1] 1265). 14) isom. α -[4-Methylphenyl]amido- β -Benzylthioharnstoff. Sm. 156°

 $(J. pr. [2] 67, 258 \tilde{C}. 1903 [1] 1265).$

C15H17N3S

15) Methyläther d. α -[α -Benzylhydrazido]- α -Phenylimido- α -Merkaptomethan. Fl. (B. 37, 2329 C. 1904 [2] 313).

 $C_{15}H_{17}N_8S$

 $C_{15}H_{18}N_8J$

C₁₅H₁₉ON

16) Methyläther d. α -[β -Benzylhydrazido]- α -Phenylimido- α -Merkaptomethan. Fl. (B. 37, 2329 C. 1904 [2] 313). C₁₅H₁₈ON₂ *16) Aethyläther d. 4'-Oxy-4-Methyl-s-Diphenylhydrazin. Sm. 96—97° (B. 36, 3850 C. 1904 [1] 89). 26) a-Oxydi[4-Amido-3-Methylphenyl]methan. Sm. 135° (C. 1903 [2] 442). 27) 4'-Dimethylamido-4-Oxy-3-Methyldiphenylamin. Sm. 153-154° (D.R.P. 140733 C. 1903 [1] 1011). 28) Aethyläther d. 2'-Amido-5'-Oxy-2-Methyldiphenylamin. Sm. 82 bis 83° (B. 36, 3860 C. 1904 [1] 91). 29) Aethyläther d. 4-Oxy-2-Methyl-s-Diphenylhydrazin. Sm. 100° (B. 36, 3853 C. 1904 [1] 90). $C_{15}H_{18}O_2N_2$ 11) 4'-Dimethylamido-3-Oxy-4-Oxymethyldiphenylamin? Sm. noch nicht bei 300° (J. pr. [2] 69, 239 Č. 1904 [1] 1269). 12) $\beta\beta$ -Di[P-Amido-4-Oxyphenyl] propan. Sm. 218—219° (C. 1904 [2] 1737). 13) Dimethyläther d. 3,3'-Diamido-4,4'-Dioxydiphenylmethan. Sm. 107° (D.R.P. 140690 C. 1903 [1] 1010). 14) Dimethyläther d. Di[2-Oxyphenylamido]methan. Sm. 86° (B. 36, 48 *C.* **1903** [1] 505). 15) Dimethyläther d. Di[4-Oxyphenylamido]methan. Sm. 66° (B. 36, 49 C. 1903 [1] 505). 16) Verbindung (aus Parasantonid). Sm. 171—172° (C. 1903 [2] 1377).
3) Aethylester d. 3-[α-Phenylhydrazonäthyl]-4-Methylpyrazol-5-Carbonsäure. Sm. 197—198° (E. 36, 1130 C. 1903 [1] 1138). $C_{15}H_{18}O_{2}N_{4}$ 4) Amid d. 5-Keto-l-Phenyl-3-Hexahydrophenyl-4, 5-Dihydro-1, 2, 4-Triazol-4-Carbonsäure. Sm. oberh. 300° (B. 36, 1095 C. 1903 [1] 1140). C₁₅H₁₈O₄N₂ *2) Pernitrososantonin. Sm. 190° u. Zers. (G. 33 [1] 195 C. 1903 [2] 45). 4) 2-Naphtylhydrazon d. 1-Xylose. Sm. 123—1246 (B. 35, 4444 C. 1903) [1] 392). C₁₅H₁₈O₄N₆ $C_{52,0} - H_{5,2} - O_{18,5} - N_{24,3} - M_{6,346}$ Azid d. α-[α-Benzoylamidoacetylamidopropionyl]amidopropionsäure. Sm. 145° u. Zers. (J. pr. [2] 70, 125 C. 1904 [2] 1037).
 Dibromparasantonsäure. Sm. 176-177° u. Zers. (C. 1903 [2] 1447). $C_{15}H_{18}O_4Br_2$ 3) Diäthylester d. β-[2-Methylphenyl]hydrazon-α-Ketoäthan-αβ-Dicarbonsäure. Sm. 86-87° (Bl. [3] 31, 81 C. 1904 [1] 580).
4) Diäthylester d. isom. β-[2-Methylphenyl]hydrazon-α-Ketoäthan-αβ-Dicarbonsäure. Sm. 155-156° (Bl. [3] 31, 82 C. 1904 [1] 580). $C_{15}H_{18}O_5N_2$ C15H18O6N2 6) Dimethylester d. α-Benzoylamidoacetylamidoäthan-αβ-Dicarbonsäure. Sm. 136—137° (J. pr. [2] 70, 173 C. 1904 [2] 1396). $\mathbf{C}_{15}\mathbf{H}_{18}\mathbf{O}_{6}\mathbf{N}_{4}$ *1) Benzoyltri [Amidoacetyl]amidoessigsäure. Sm. 233° (235°). Ag (B. 37, 1283 C. 1904 [1] 1335; J. pr. [2] 70, 84 C. 1904 [2] 1034; B. 37, 2505 C. 1904 [2] 426).

*2) 4-[α-Chloräthyl]-1,3-Dimethylbenzol + Pyridin. Sm. 153° (B. 36, 1637 C. 1903 [2] 26).

1) 4-[α-Bromäthyl]-1,3-Dimethylbenzol + Pyridin. Sm. 144—145° (B. 36, 1632 C. 1903 [2] 26). $C_{1\delta}H_{18}NCl$ $C_{1\delta}H_{18}NBr$ (B. 36, 1638 C. 1903 [2] 26). C₁₅H₁₈NJ 1) Dimethylphenylbenzylammoniumjodid. Sm. 165° (Soc. 83, 1409) C. 1904 [1] 438). 3) α -[d-sec. Butyl]- β -[1-Naphtyl]thioharnstoff. Sm. 135° (Ar. 242, 63 C15H18N2S C. **1904** [1] 998). 4) α -[d-sec. Butyl]- β -[2-Naphtyl]thioharnstoff. Sm. 120° (Ar. 242, 63 C. 1904 [1] 998). $C_{15}H_{18}N_3Cl$ 1) Chlormethylat d. 4-Dimethylamidoazobenzol. Sm. 1930 (B. 36, 1487 C. 1903 [1] 1350). *1) Jodmethylat d. 4-Dimethylamidoazobenzol. Sm. 1850 (1730) (B. 36,

1486 C. 1903 [1] 1350; A. 327, 113 C. 1903 [1] 1213).

16) Dimethylphenylbenzylammoniumhydroxyd.

sulfonat (Soc. 83, 1409 C. 1904 [1] 438).

[1] 11 C. 1903 [1] 925).

15) 2-Oxy-1-[α-Amidoamyl]naphtalin. Sm. 1140. HCl, Pikrat (G. 33

Jodid, d - Campher-

C₁₅H₁₉ON 17) 4-[α-Oxyäthyl]-1,3-Dimethylbenzol + Pyridin. Chlorid, Bromid, Pikrat (B. 36, 1638 C. 1903 [2] 26). 18) Acetylderivat d. 2-Methylen-1, 3-Dimethyl-3-Aethyl-2, 3-Dihydroindol. Sm. 85—86° (*G.* 32 [2] 411 *C.* 1903 [1] 838).

11) Parasantonimid. Sm. 216—217° (*C.* 1903 [2] 1067).

14) Parasantoninoximid (*C.* 1903 [2] 1377).

15) Oxyparasantoninimid? Sm. 256° (*C.* 1903 [2] 1377). $C_{15}H_{19}O_2N$ C₁₅H₁₉O₈N 16) Anhydrid d. Verbindung $C_{15}H_{21}O_4N$. Sm. 171—172° (C. 1904 [1] 1447). 8) Anhydrocotarninaceton. Sm. 83°. HCl, (2HCl, PtCl₄) (B. 37, 212 C15H19O4N C. 1904 [1] 590). $C_{15}H_{19}O_4N_3$ 2) 2,5-Diketo-4,4-Dimethyl-1-Phenyltetrahydroimidazol-3-a-Amidoisobuttersäure. Sm. 205° (C. 1904 [2] 1029). $C_{15}H_{19}O_5N$ 6) Oxim d. Mekoninmethylpropylketon. Sm. 153-157° (M. 25, 1056 C. 1904 [2] 1644). 7) Oxim d. Mekoninmethylisopropylketon. Sm. 110° (M. 25, 1057 C. 1904 [2] 1644). 8) isom. Oxim d. Mekoninmethylisopropylketon. Sm. 223° (M. 25, 1059 C. 1904 [2] 1644).

*2) Aethylester d. Benzoylbis[Amidoacetyl]amidoessigsäure. Sm. 173° $C_{15}H_{19}O_5N_8$ (J. pr. [2] 70, 82, 94 C. 1904 [2] 1033). 3) α - $[\alpha$ -Benzoylamidoacetylamidopropionyl] amidopropionsäure. Sm. 120—130°. Ag (J. pr. [2] 70, 122 C. 1904 [2] 1037). $C_{15}H_{19}O_5C1$ 1) Chlorhydrin d. Dehydrodioxyparasantonsäure. Sm. 204 - 205° (C. 1903 [2] 1447). 3) 3,6-Diketo-2-Isobutyl-5-[4-Oxybenzyl]hexahydro-1,4-Diazin+H₂O
 (Anhydrid d. Leucyl-I-Tyrosin). Sm. 310° u. Zers. (B. 37, 2498 C. 1904 C15H20O3N2 [2] 426). $C_{15}H_{20}O_8N_4$ $C^{5}9,2 - H^{6},6 - O^{15},8 - N^{18},4 - M.G.^{304}$. Isopropylideńhydrazid d. α - Benzoylamidopropionylamidoessig-säure. Sm. 177° (J. pr. [2] 70, 155 C. 1904 [2] 1395). $C_{16}H_{20}O_4N_2$ 11) δ -Phenylhydrazonheptan- $\alpha\eta$ -Dicarbonsäure. Sm. 151° u. Zers. (B. 37, 3819 C. 1904 [2] 1606). Aethylester d. β -Benzoylamidoacetylamidobuttersäure. Sm. 80° (J. pr. [2] 70, 207 C. 1904 [2] 1459). 12) Aethylester d. Aethylester d. γ-Benzoylamidoacetylamidobuttersäure. Sm. 94°
 (J. pr. [2] 70, 226 C. 1904 [2] 1461). Sm. 91°; Sd. 280° (B. 36, 3779 C. 1904 [1] 41). C15H20O5N4 C 53,6 - H 5,9 - O 23,8 - N 16,7 - M. G. 336. Aethylester d. β-Phenylureïdoacetylamidoacetylamidoessigsäure. Sm. 203° u. Zers. (J. pr. [2] 70, 259 C. 1904 [2] 1464). C 49,4 — H 5,5 — O 22,0 — N 23,1 — M. G. 364.
 Hydrazid d. Benzoyltri [Amidoacetyl] amidoessigsäure. Sm. 268° C15 H20 O5 N6 (J. pr. [2] 70, 86 C. 1904 [2] 1034). 1) $\dot{\mathbf{4}}$ -Methyl-1,3-Phenylendi[α -Sulfonbuttersäure]. Fl. Ba (J. pr. [2] $\mathbf{C}_{15}\mathbf{H}_{10}\mathbf{O}_{8}\mathbf{S}_{2}$

68, 338 C. 1903 [2] 1172).
2) Diäthylester d. 4-Methyl-1,3-Phenylendi[Sulfonessigsäure]. Fl. (J. pr. [2] 68, 337 C. 1903 [2] 1172).

 $C_{15}H_{21}ON_{3}$

 $C_{15}H_{21}O_2N$

C 69,5 — H 8,1 — O 6,2 — N 16,2 — M. G. 259. 1) γ -Semicarbazon- α -[4-Isopropylphenyl]- α -Penten. Sm. 193° (A. 330, 258 C. 1904 [1] 946).

2) γ -Semicarbazon- α -[4-Isopropylphenyl]- β -Methyl- α -Buten. Sm.177,5° (A. 330, 261 C. 1904 [1] 947).

4-Diäthylamido-3-Keto-1,5-Dimethyl-2-Phenyl-2,3-Dihydropyrazol (C. 1897 [1] 1140; D.R.P. 144393 C. 1903 [2] 777).
 Phenylamidoformiat d. 1-Oxy-1-Aethylhexahydrobenzol. Sm. 83°

(C. r. 138, 1324 C. 1904 [2] 219). $C_{16}H_{21}O_8N$ 15) Phenylmonamid d. β -Methylhexan- β s-Dicarbonsäure. Sm. 176—178° (A. 329, 93 C. 1903 [2] 1071).

 $C_{15}H_{21}O_4N$ 10) Parasantoninhydroxamsäure? Sm. 180° (C. 1903 [2] 1377).

C₁₅H₂₃O₈N₅

 $C_{15}H_{21}O_4N$ 11) Anhydrid d. Hydroxamsantolsäure. Sm. 226-227°. Ba + H_2O_4N (G. 33 [1] 199 C. 1903 [1] 45). 12) Verbindung (aus Parasantonsaure). Sm. 239-240° u. Zers. (C. 1903 [2] 1446). $C_{58,6} - H_{6,8} - O_{20,8} - N_{13,7} - M.G.$ 307. C₁₅H₂₁O₄N₃ Aethylester d. β-Benzoylamidoacetylamidopropylamidoameisensäure. Sm. 151° (J. pr. [2] 70, 215 C. 1904 [2] 1460).
 C 53,8 — H 6,2 — O 19,1 — N 20,9 — M. G. 335. C15 H21 O4 N5 1) Amid d. α - $[\alpha$ - Benzoylamidoacetylamidopropionyl] amidoathylamidoameisensäure. Sm. 199° (J. pr. [2] 70, 126 C. 1904 [2] 1037). 2) Hydrazid d. α-[α-Benzoylamidoacetylamidopropionyl]amidopropionsäure. Sm. 213° (J. pr. [2] 70, 124 C. 1904 [2] 1037). 2) Amid d. 3,4-Dioxy-1-[α -Oxy- γ -Ketoisohexyl]benzol-3,4-Dimethyläther-2-Carbonsäure. Sm. 141—143° (M. 25, 1061 C. 1904 [2] 1644). C₁₅H₂₁O₅N C 51,3 - H 6,0 - O 22,8 - N 19,9 - M. G. 351.C15H21O5N5 1) Aethylester d. β -Phenylureïdoacetylamidoacetylamidomethylamidoameisensäure. Sm. 244° u. Zers. (J. pr. [2] 70, 262 C. 1904 [2] 1465). 8) α -Aethyl- α -Hexahydrophenyl- β -Phenylharnstoff. Sm. 125° (C. r. C15H22ON2 138, 1258 C. 1904 [2] 105). 5) Piperidinverbindung d. Anetholnitrosochlorid. Sm. 1070 (C. 1904) C₁₅H₂₂O₂N₂ [2] 1038). 2) α-[α-Amidoisocapronyl]amido-β-Phenylpropionsäure + H₂O. Sm. 220-223° (B. 37, 3308 C. 1904 [2] 1306).
 3) isom. α-[α-Amidoisocapronyl]amido-β-Phenylpropionsäure. Sm. C15H22O3N2 259° u. Zers. (B. 37, 3308 C. 1904 [2] 1306). 1) γ -Keto- ε -Aethylsulfon- ε -Phenyl- β -Methylpentan. Sm. 122-124° C15H22O3S (B. 37, 506 C. 1904 [1] 883).
 Metasantonsäuredioxim. Sm. 115-120° (G. 29 [2] 234). — *II, 1045.
 1 - α - [α - Amidoisocapronyl]amido - β - [4-Oxyphenyl]propionsäure (Leucyl-l-Tyrosin) (B. 37, 2498 C. 1904 [2] 426). $C_{15}H_{22}O_4N_2$ $C_{15}H_{22}O_7N_2$ *1) Triäthylester d. δs -Diimido- β -Ketohexan- $\gamma \zeta \zeta$ -Tricarbonsäure (A. 332, 144 C. 1904 [2] 191). $C_{15}H_{22}O_8Br_2$ 1) Tetraäthylester d. $\alpha\gamma$ -Dibrompropan- $\alpha\alpha\gamma\gamma$ -Tetracarbonsäure. Sm. 54—55° (Soc. 83, 782 C. 1903 [2] 201, 439). $\mathbf{C}_{15}\mathbf{H}_{22}\mathbf{N}_{2}\mathbf{S}$ 3) α -Aethyl- α -Hexahydrophenyl- β -Phenylthioharnstoff. (C. r. 138, 1258 C. 1904 [2] 105). 2) γ-Semicarbazon-α-[4-Isopropylphenyl]pentan. Sm. 214,50 (A. 330, C₁₅H₂₈ON₈ 260 *C.* **1904** [1] 947). 3) γ -Semicarbazon- α -[4-Isopropylphenyl]- β -Methylbutan. Sm. 148.5° (A. **330**, 263 C. **1904** [1] 947). 6) Benzoat d. α -Dimethylamido- β -Oxy- β -Methylpentan. HCl (C. r. 138. C15H28O2N 767 C. 1904 [1] 1196). 7) Phenylamidoformiat d. α -Oxyoktan. Sm. 69° (74°) (Bl. [3] 31, 50 C. 1904 [1] 507; C. r. 136, 1677 C. 1903 [2] 419). 8) Phenylamidoformiat d. β -Oxyoktan. Fl. (Bl. [3] 31, 51 C. 1904 [1] 507). Phenylamid d. α-Oxyoktan-α-Carbonsäure. Sm. 69—70° (C. r. 138, 698 C. 1904 [1] 1066). C₁₅H₂₃O₅N 3) Oxim d. Santolsäure. Sm. 202-205° u. Zers. (G. 33 [1] 205 C. 1903 [2] 45).

 $\mathbf{C}_{15}\mathbf{H}_{23}\mathbf{O}_{5}\mathbf{N}_{8}$ C 55,4 - H 7,1 - O 24,6 - N 12,9 - M. G. 325.1) Semicarbazon d. Keto- β -Santorsäuredimethylester. Sm. 168° (C. 1896 [2] 1114). — *II, 1115.

(C. 1896 [2] 1114). — 11, 1110.
4) Triäthylester d. γ-Cyanpentan-αγε-Tricarbonsäure. Fl. (Soc. 85, 422 C. 1904 [1] 1439).
C 52,2 — H 6,6 — O 37,1 — N 4,1 — M. G. 345.
1) Verbindung (aus δε-Diimido-β-Ketohexan-γζζ-Tricarbonsäuretriäthylester). Sm. 110° (A. 332, 144 C. 1904 [2] 191).
C 44,9 — H 5,7 — O 31,9 — N 17,5 — M. G. 401.
1) Pepton (aus Leim) (H. 38, 322 C. 1903 [2] 213).
2) Dimethylester d. Semicarbazonglyoximperoxydihydrotetramethylester C15H23O6N C₁₅H₂₈O₈N

2) Dimethylester d. Semicarbazonglyoximperoxydihydrotetramethyldimalonsäure. Sm. 170-172° (Soc. 83, 1261 C. 1903 [2] 1423).

- C₁₅H₂₄ON₂ *1) d-Lupanin. (HCl, AuCl₃), HJ + 2H₂O, CHNS + H₂O (\mathcal{C} . 1903 [1; 930; \mathcal{G} . 33 [1] 428 \mathcal{C} . 1903 [2] 839; $\mathcal{A}r$. 242, 415 \mathcal{C} . 1904 [2] 781; $\mathcal{A}r$. 242, 432 \mathcal{C} . 1904 [2] 783).

 C₁₅H₂₄O₂N₂ 2) Oxylupanin + 2H₂O. Sm. 76—77° (172—174° wasserfrei). HCl + 2H₂O, 2HCl + H₂O, (2HCl, PtCl₄ + H₂O), (HCl, AuCl₃), CHNS + H₂O ($\mathcal{A}r$. 242, 419 \mathcal{C} . 1904 [2] 782).

 C₁₅H₂₄O₄N₂ *1) Caryophyllennitrosat. Sm. 152° ($\mathcal{A}r$. 241, 38 \mathcal{C} . 1903 [1] 712).

- 1) 2,4-Di[Butylsulfon]-1-Methylbenzol. Fl. (J. pr. [2] 68, 336 C. 1903 C15H24O1S2 [2] 1172).
- C15H24O5N2
- C 57,7 H 7,7 O 25,6 N 9,0 M. G. 312.

 1) Aethylester d. 6-Keto-2,4-Dioxy-5-Cyan-2-Methyl-5-Propylhexahydropyridin-4-Aethyläther-3-Carbonsäure. Sm. 260° (G. 33 [2] 165 C. 1903 [2] 1283).
 - 2) α-Verbindung (aus Cyklogallipharsäure). Sm. 63,5° (Ar. 242, 266 C. 1904 [1] 1654).
 - 3) β-Verbindung (aus Cyklogallipharsäure). Sm. 59,5° (Ar. 242, 267 C. 1904 [1] 1654).

 1) Karakin. Sm. 100° (C. 1903 [2] 379).
- $\substack{C_{15}H_{24}O_{15}N_8\\C_{15}H_{24}NJ}$ 1) Methylallyl-l-Amylphenylammoniumjodid (C. 1904 [2] 952). C₁₅H₂₅ON₈
 - C 68,4 H 9,5 O 6,1 N 16,0 M. G. 263.

 1) Semicarbazon d. α-Methyljonon. Sm. 144° (D.R.P. 150827 O. 1904) [1] 1379).
 - 2) Semicarbazon d. isom. α-Methyljonon. Sm. 202° (D.R.P. 150827 *C.* **1904** [1] 1379).
 - 3) Semicarbazon d. β -Methyljonon. Sm. 138—139° (D.R.P. 150827 C. 1904 [1] 1379).
 - 4) Semicarbazon d. isom. β -Methyljonon. Sm. 175—176° (D.R.P. 150827 C. 1904 [1] 1379).
- C15H25O4Cl
- 1) Verbindung (aus d. Verb. C₁₅H₂₄O) (C. 1904 [2] 1227). *1) Dioxyspartein (Sparteinoxyd). Sm. 127—128 (B. 37, 3240 C. 1904 C15H26O2N2 [2] 1154).
- C 61,2 H 8,8 O 10,9 N 19,0 M. G. 294 $C_{15}H_{26}O_2N_4$
- Co1, a = H 0, b = V 10, b = N 12, b = M. G. 294. 1) βζ Di[Hydroxylamido] <math>b Phenylhydrazon βζ Dimethylheptan.Sm. 152° (B. 36, 657 C. 1903 [1] 762). C 63, b = H 9, b = H 0 (and b = H 0. G. 282. 1) Amidoderivat b = H (and b = H 0. Sm. 47° (Ar. 242, 270 C. 1904 [1] 1654). $\mathbf{C}_{15}\mathbf{H}_{26}\mathbf{O}_{8}\mathbf{N}_{2}$
- C₁₅H₂₇O₈N₈ *2) Menthylester d. β -Semicarbazidopropen- α -Carbonsäure. Sm. 143 bis 144° (Soc. 81, 1504 C. 1903 [1] 138). C₁₅H₂₇O₈N C 56,8 H 8,5 O 30,3 N 4,4 M. G. 317.
 - 1) Aethyldiisoamylester d. Stickstofftricarbonsäure. (B. 37, 3676 C. 1904 [2] 1495). Sd. 184-186%
- C₁₅H₂₇O₆B 1) Gem. Anhydrid d. Isovaleriansäure u. Borsäure. Fl. (B. 36, 2223 C. 1903 [2] 421). C 55,2 — H 9,2 — O 9,8 — N 25,8 — M. G. 326.
- C15H30O2N6 1) Semicarbazidsemicarbazon d. Citronellidenaceton. Sm. 167º (B. 36, 2802 C. 1903 [2] 878; B. 36, 4378 C. 1904 [1] 454).
- 1) R-Aethylentrimethylendi[Piperidyliumchlorid]. + 2 HgCl₂, + PtCl₄ C₁₅H₈₀N₂Cl₂ (Ph. Ch. 46, 307 C. 1904 [1] 674). 2) isom. R-Aethylentrimethylendi[Piperidyliumchlorid]. $+ 2 \text{HgCl}_2$,
 - PtCl₄ (Ph. Ch. 46, 309 C. 1904 [1] 674).
- C₁₅H₈₀N₂Br₂*1) R-Aethylentrimethylendi[Piperidyliumbromid]. Sm. oberh. 300° (Ph. Ch. 46, 306 C. 1904 [1] 674).
 - 2) isom. R-Aethylentrimethylendi[Piperidyliumbromid]. Sm. oberh.
- 300° (Ph. Ch. 46, 309 C. 1904 [1] 674).

 1) R-Aethylentrimethylendi[Piperidyliumjodid]. Sm. 300° u. Zers. C₁₅H₃₀N₂J₂ (Ph. Ch. 46, 308 C. 1904 [1] 674).
 - 2) isom. R-Aethylentrimethylendi[Piperidyliumjodid]. Sm. 282° u.
- Zers. (Ph. Ch. 46, 310 C. 1904 [1] 674. C 66,9 H 11,5 O 5,9 N 15,6 M. G. 269. 1) γ-Semicarbazontetradekan. Sm. 92° (Bl. [3] 29, 1211 C. 1904 [1] 355). C15H31ON8
- C 66,2 H 11,7 O 11,7 N 10,3 M. G. 272. $C_{15}H_{82}O_2N_2$ 1) R - Aethylentrimethylendi [Piperidyliumhydroxyd]. d - Camphersulfonat (Ph. Ch. 46, 313 C. 1904 [1] 675).

 $\mathbf{C_{15}H_{32}O_{2}N_{2}}$ 2) isom. R-Aethylentrimethylendi [Piperidyliumhydroxyd]. d-Campher-

sulfonat (Ph. Ch. 46, 314 C. 1904 [1] 675). 2) α -[d-sec. Butyl]- $\beta\beta$ -Diisoamylthioharnstoff. Fl. (Ar. 242, 61 C. 1904) C15 H32 N2S [1] 998). *1) Triisoamylester d. Borsäure. Sd. 258° (B. 36, 2221 C. 1903 C15H28O3B [2] 420). 1) Di[Jodmethylat] d. Di[Dipropylamido]methan. Sm. 96° (B. 36, 1199 C. 1903 [1] 1215). $C_{15}H_{36}N_2J_2$ — 15 IV — 1) Carbindophtenin (B. 37, 3351 C. 1904 [2] 1058). $C_{15}H_7O_2NS_2$ 1) Dibromamido-9,10-Anthrachinon-2-Carbonsäure (D.R.P. 142997 C₁₅H₇O₄NBr₂ C. 1903 [2] 169). $C_{15}H_{10}ONC1$ 4) 1-Chlor-4-Oxy-3-Phenylisochinolin. Sm. 119° (B. 37, 1691 C. 1904 [1] 1524). 5) α-Benzoyl-α-[4-Chlorphenyl]essigsäure. Sm. 92° (J. pr. [2] 67, 378 C. 1903 [1] 1356). 1) Nitril d. $\alpha\beta$?-Tribrom- α -Phenyl- β -[2-Oxyphenyl] propionsäure. Sm. 135° (B. 37, 3166 C. 1904 [2] 983). C15H10NBr3 2) 5-Chlor-1-Methylamido-9,10-Anthrachinon (D.R.P. 144634 C₁₅H₁₀O₂NCl C. 1903 [2] 750). 3) 5-Keto-4-[4-Chlorphenyl]-3-Phenyl-4, 5-Dihydroisoxazol. Sm. 147° (J. pr. [2] 67, 382 C. 1903 [1] 1356). C15H10O2NCls 1) 3,5-Dichlor-4-Acetylchloramidodiphenylketon. Sm. 1180 (Soc. 85, 345 C. 1904 [1] 1405). $C_{15}H_{10}O_2NBr$ 2) 4-Brom-I-Methylamido-9,10-Anthrachinon. Sm. 1920 (D.R.P. 144634 C. 1903 [2] 750). 3) 5-Brom-I-Methylamido-9,10-Anthrachinon (D.R.P. 144634 C. 1903 [2] 750). 1) α -Chlor- γ -Keto- α [oder γ]-Phenyl- γ [oder α]-[4-Nitrophenyl]-propen. Sm. 131° (B. 37, 1152 C. 1904 [1] 1267). C₁₅H₁₀O₈NCl C15H10O5N2S 1) 6-Phenylazo-1, 2-Benzpyron-64-Sulfonsäure (B. 37, 4127 C. 1904 [2] 1735). $C_{15}H_{11}ON_2Cl$ 1) 4-Keto-2-[4-Chlorbenzyl]-3,4-Dihydro-1,3-Benzdiazin. Sm. 2460 u. Zers. (J. pr. [2] 69, 22 C. 1904 [1] 640).
 2) Nitril d. β-Oximido-α-[4-Chlorphenyl]-β-Phenylpropionsäure. Sm. 168° (J. pr. [2] 67, 381 C. 1903 [1] 1356). 3) Chlorid d. Azobenzol-4-Akrylsäure (C. r. 135, 1117 C. 1903 [1] 286) C15H11O2NCl2 3) 3,5-Dichlor-4-Acetylamidodiphenylketon. Sm. 1850 (Soc. 85, 345 C. **1904** [1] 1405). 4) 5-Chlor-2-Acetylchloramidodiphenylketon. Sm. 107° (Soc. 85, 344 C. **1904** [1] 1405). 5) 3-Chlor-4-Acetylchloramidodiphenylketon. Sm. 102° (Soc. 85, 342 C. 1904 [1] 1405). C₁₅H₁₁O₂NBr₄ 1) N-Acetylphenyl-3,4,5,6-Tetrabrom-2-Oxybenzylamin. Sm. 157 bis 158° (A. 332, 178 C. 1904 [2] 209). C15H11O2N2Cl 1) Benzyläther d. Chlorisatinoxim. Sm. 224,5° (B. 35, 4337 C. 1903 [1] 293). 2) Benzyläther d. Bromisatinoxim. Sm. 200° (B. 35, 4337 C. 1903 $C_{15}H_{11}O_{2}N_{2}Br$ [1] 293). 3) $\beta \gamma$ -Dibrom- α -Keto- γ -[4-Nitrophenyl]- α -Phenylpropan. Sm. 151° (B. 37, 1149 C. 1904 [1] 1267). 2) 6-Phenylsulfonamido-1,2-Benzpyron. Sm. 159° (Soc. 85, 1234) $\mathbf{C}_{15}\mathbf{H}_{11}\mathbf{O}_{3}\mathbf{NBr}_{2}$ C₁₅H₁₁O₄NS C. 1904 [2] 1124). 1) 1-Methylamido - 9,10 - Anthrachinon - 5-Sulfonsäure (B. 37, 70 $\mathbf{C}_{15}\mathbf{H}_{11}\mathbf{Q}_{5}\mathbf{NS}$ C. 1904 [1] 666).
 1-Methylamido-9,10-Anthrachinon-8-Sulfonsäure (B. 37, 70)

3) ?-Methylamido-9,10-Anthrachinon-1-Sulfonsäure. Na (D.R.P.

1) 4-Methylamido-1-Oxy-9,10-Anthrachinon-7-Sulfonsäure (D.R.P.

C. 1904 [1] 666).

144634 C. 1903 [2] 750).

155440 C. 1904 [2] 1356).

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C₁₅H₁₁O₆NS

	- 501 = 15 IV.
$C_{15}H_{12}ON_2S$	*2) I-Acetylphenylamidobenzthiazol. Sm. 162—163° (B. 34, 3138; B. 36, 3128 C. 1903 [2] 1070).
$\mathbf{C}_{15}\mathbf{H}_{12}\mathbf{ON}_{2}\mathbf{Se}$	1) Diphenylamid d. Selencyanessigsäure. Sm. 103° (Ar. 241, 221 C. 1903 [2] 104).
$\mathbf{C_{15}H_{19}ON_8Br}$	1) 3-Oxy-2-[3-Brom-2-Amidophenyl]-6-oder 7-Methyl-1,4-Benz-diazin. Sm. 243° (B. 35, 4334 C. 1903 [1] 293).
$\mathbf{C}_{15}\mathbf{H}_{12}\mathbf{O}_{2}\mathbf{NCl}$	5) Methyl-3-Chlor-4-Benzoylamidophenylketon. Sm. 132° (Soc. 85, 342° C. 1904 [1] 1404).
w ₂ to g	6) Methyl-4-Benzoylchloramidophenylketon. Sm. 77° (C. 1903 [1] 832).
	7) 2-Acetylchloramidodiphenylketon. Sm. 102° (C. 1903 [1] 1137). 8) 4-Acetylchloramidodiphenylketon. Sm. 124° (C. 1903 [1] 1137).
	9) 5-Chlor-2-Acetylamidodiphenylketon. Sm. 117° (Soc. 85, 344 C. 1904 [1] 1405).
e vi	10) 3-Chlor-4-Acetylamidodiphenylketon. Sm. 99,5° (Soc. 85, 342 C. 1904 [1] 1405).
	11) Amid d. a-Benzoyl-a-[4-Chlorphenyl]essigsäure. Sm. 196° (J. pr. [2] 67, 384 C. 1903 [1] 1356).
$\mathrm{C_{15}H_{12}O_{2}NBr}$	5) 2-Acetylbromamidodiphenylketon. Sm. 121° (C. 1903 [1] 1137). 6) 4-Acetylbromamidodiphenylketon. Sm. 151° (C. 1903 [1] 1137).
$\mathbf{C_{15}H_{12}O_{2}NBr_{8}}$	1) N-Acetylphenyl-2, 4, 6-Tribrom-3-Oxybenzylamin. Sm. 180. (4. 332, 182 C. 1904 [2] 209).
	2) Acetat d. Phenyl-2, 4, 6-Tribrom-3-Oxybenzylamin. Sm. 99—100° (A. 332, 181 C. 1904 [2] 209).
$C_{15}H_{12}O_2N_2S$	1) 2-Acetylimido-4-Keto-3-[2-Naphtyl]tetrahydrothiazol. Sm. 139 bis 140° (C. 1903 [2] 110).
	2) 2-[2-Naphtyl]imido-4-Keto-3-Acetyltetrahydrothiazol. Sm. 142 bis 143° (C. 1903 [2] 110).
$\mathbf{C_{15}H_{12}O_{3}NCl}$	 β-Oximido α-[4-Chlorphenyl]-β-Phenylpropionsäure. Sm. 153° pr. [2] 67, 385 C. 1903 [1] 1357).
$\mathbf{C_{15}H_{12}O_4N_2Br_2}$	
	 N-Acetyl-4-Nitrophenyl-3, 5-Dibrom-2-Oxybenzylamin. Sm. 146 bis 150° (A. 332, 190 C. 1904 [2] 210).
$\mathbf{C_{15}H_{12}O_4N_8Br}$	3) α -Acetyl- α -Phényl- β -[5-Brom-3-Nitro-2-Oxybenzyliden]-hydrazin. Sm. 248° (B. 37, 3937 C. 1904 [2] 1596).
	4) Acetat d. α-Phenyl-β-[5-Brom-3-Nitro-2-Oxybenzyliden]- hydrazin. Sm. 209—210° (B. 37, 3936 C. 1904 [2] 1596).
$\mathbf{C_{15}H_{12}O_6N_2S}$	1) 4 - Oxyazobenzol - 3 - Akrylsäure - 4' - Sulfonsäure (B. 37, 4127 C. 1904 [2] 1735).
$\mathbf{C}_{15}\mathbf{H}_{12}\mathbf{O}_{6}\mathbf{N}_{8}\mathbf{C}\mathbf{I}$	1) Acetat d. P-Chlor-4,6-Dinitro-4'-Oxy-3-Methyldiphenylamin. Sm. 128° (B. 37, 2093 C. 1904 [2] 34).
C ₁₅ H ₁₂ NCl ₃ S	1) 4-Methylphenyläther d. $\beta\beta\beta$ -Trichlor- α -[4-Merkaptophenyl]imidoäthan. Sm. 107—108° (J. pr. [2] 68, 271 C. 1903 [2] 993).
$C_{15}H_{12}NBrMg$ $C_{15}H_{12}N_2Br_2S_2$	1) Chinoimphenyimagnesiumbromid (B. 37, 3091 C. 1904 [2] 995). 1) Methyläther d. 2,?-Dibrom-5-Merkapto-2,3-Diphenyl-2,3-Di-
• •	hydro - 1, 3, 4 - Thiodiazol. Sm. 196° u. Zers. (J. pr. [2] 67, 237 C. 1903 [1] 1263).
$\mathbf{C}_{15}\mathbf{H}_{18}\mathbf{ONBr}_{4}$	2) 3,4,5,6-Tetrabrom-4'-Dimethylamido-2-Oxydiphenylmethan: Sm. 121-123°. HBr (A. 334, 327 O. 1904 [2] 988).
$\mathbf{C}_{15}\mathbf{H}_{18}\mathbf{ONS}_{2}$	2) 2 - Thiocarbonyl - 4 - Keto - 3 - Allyl - 5 - Cinnamylidentetrahydro- thiazol. Sm. 166° (M. 24, 514 C. 1903 [2] 837).
$C_{15}H_{18}ON_8S$	4) 5-Thiocarbonyl-3-Keto-4-Phenyl-1-Benzyltetrahydro-1, 2, 4- Triazol. Sm. 218° (B. 37, 2336 C. 1904 [2] 315).
•	5) 5-Merkapto-4-Phenyl-1-Benzyl-4, 5-Dihydro-1, 2, 4-Triazol-3, 5-Oxyd. Sm. 147° (B. 37, 2335 C. 1904 [2] 315).
$\mathbf{C_{15}H_{13}ON_{2}Br}$	2) Aethyläther d. 6-Oxy-1-[2-Bromphenyl]benzimidazol. Pikrat (B. 36, 3867 C. 1904 [1] 92).
,	3) Aethyläther d. 6-Oxy-I-[3-Bromphenyl]benzimidazol. Sm. 130°. Pikrat (B. 36, 3869 C. 1904 [1] 92).
C ₁₅ H ₁₈ ON ₈ S	4) 2-Phenylimido-6-Keto-4-Phenyl-3,4,5,6-Tetrahydro-1,3,4- Thiodiazin? Sm. 201° u. Zers. (B. 36, 3888 C. 1904 [1] 27).
$\mathbf{C_{15}H_{18}O_{2}NBr_{2}}$	*1) Phenyl-3,5-Dibrom-2-Oxybenzylamid d. Essigsäure. Sm. 152° (A. 332, 177 C. 1904 [2] 209).

$C_{15}H_{19}O_2N_2Br$	10) α-Acetyl-α-Phenyl-β-[5-Brom-2-Oxybenzyliden]hydrazin. Sm. 152° (B. 37, 3935 C. 1904 [2] 1596).
	 Acetat d. α-Phenyl-β-[5-Brom-2-Oxybenzyliden]hydrazin. Sm. 138° (B. 37, 3934 C. 1904 [2] 1596).
$\mathbf{C_{15}H_{18}O_{8}NBr_{9}}$	1) Methylester d. 3-[3,5-Dibrom-2-Oxybenzyl]amidobenzol-1-Carbonsäure. Sm. 120—123° (A. 332, 197 C. 1904 [2] 210).
$\mathbf{C_{15}H_{18}O_{3}N_{2}Br}$	3) Bromderivat d. Verb. $C_{15}H_{14}O_3N_2$. Sm. 212° (J . pr . [2] 70, 374 C . 1904 [2] 1566).
$C_{15}H_{18}O_4N_4Cl$	1) 2-Chlor-6-Nitro-2-Methyl-3-[4-Nitrophenyl]-1,2,3,4-Tetra- hydro-1,3-Benzdiazin (B. 36, 3121 C. 1903 [2] 1132).
$\mathrm{C_{15}H_{19}N_{2}BrS_{2}}$	1) Methyläther d. 2-Brom-5-Merkapto-2, 3-Diphenyl-2, 3-Dihydro-1, 3, 4-Thiodiazol. + Br ₂ (Sm. 172°) (J. pr. [2] 67, 237 C. 1903 [1] 1263).
$\mathbf{C_{15}H_{18}N_{2}JS_{2}}$	1) Methyläther d. 2-Jod-5-Merkapto-2, 3-Diphenyl-2, 3-Dihydro-1, 3, 4-Thiodiazol. Sm. 188°. + J ₂ (J. pr. [2] 67, 222 C. 1903 [2] 1261).
$\mathbf{C_{15}H_{14}ONCl}$	13) Phenylbenzylamid d. Essigsäure. Sm. 80-81° (Ar. 241, 218 O. 1903 [2] 104).
$\mathbf{C_{15}H_{14}ONBr_{3}}$	1) 2,3,5-Tribrom-4'-Dimethylamido-4-Oxydiphenylmethan. Sm. 127°. HBr (A. 334, 331 C. 1904 [2] 988).
$\mathbf{C_{15}H_{14}ON_{2}S}$	*6) 6-Aethyläther d. 2-Merkapto-6-Oxy-1-Phenylbenzimidazol. Sm. 229°. Hg (B. 36, 3848 C. 1904 [1] 89).
•	11) Benzyläther d. Benzoylimidoamidomerkaptomethan. Sm. 161° (Am. 29, 76 C. 1903 [1] 523).
$\mathbf{C_{15}H_{14}ON_2S_2}$	*2) Monomethyläther d. α-Dimerkaptomethylen-α-Benzoyl-β- Phenylhydrazin. Sm. 201—202° (J. pr. [2] 67, 223 C. 1903 [1] 1261).
$\mathbf{C_{15}H_{14}ON_{4}S_{2}}$	1) s-Di[Phenylamidothioformyl]harnstoff. Sm. 166° (Soc. 83, 91 C. 1903 [1] 230, 447).
$C_{15}H_{14}O_2NC1$	3) 4-Chlor-I-[Acetyl-2-Oxybenzyl]amidobenzol. Sm. 95° (Ar. 240, 685 C. 1903 [1] 395).
$\mathbf{C_{15}H_{14}O_{2}NBr}$	 4-Brom-1-[Acetyl-2-Oxybenzyl]amidobenzol. Sm. 108° (Ar. 240, 686 C. 1903 [1] 395).
•	3) Phenylamidoformiat d. 5-Brom-4-Oxy-1, 3-Dimethylbenzol. Sm. 138—139° (B. 36, 2876 Anm. C. 1903 [2] 834).
$C_{15}H_{14}O_{2}N_{2}S$	7) Methylester d. Diphenylthioallophansäure. Sm. 105° (Soc. 83, 557 C. 1903 [1] 1123).
	8) 4-[4-Methylphenyl]merkaptophenylamid d. Oxaminsäure (p-Thiotolylphenyloxamid). Sm. 222° (J. pr. [2] 68, 268 G. 1903
C ₁₅ H ₁₄ O ₂ N ₈ Cl	2) 6-Chlor-3-Nitro-4-Dimethylamido-1-Phenylimidomethylbenzol
$C_{15}H_{14}O_8N_2S$	Sm. 118° (B. 37, 800 C. 1904 [1] 1207). 2) 2-Naphtylacetylthiohydantoinsäure. Sm. 167—173° (C. 1908)
$\mathbf{C_{15}H_{14}O_{4}N_{4}S}$	[2] 110). *2) s-Di[2-Nitro-4-Methylphenyl]thioharnstoff. Sm. 207° (B. 36,
$C_{15}H_{14}O_5N_2S$	1139 C. 1903 [1] 1220). 1) Aldehyd d. 4-Nitro-5-Dimethylamidodiphenylsulfon-2-Carbon-
$\ddot{\mathbf{C}}_{15}\mathbf{H}_{14}\mathbf{O}_{6}\mathbf{N}_{2}\mathbf{S}$	säure. Sm. 196° (B. 37, 866 C. 1904 [1] 1207). 1) 4-Oxyazobenzol-2-Propionsäure-4'-Sulfonsäure (B. 37, 4131
.	C. 1904 [2] 1735). 2) 4-Oxyazobenzol-3-Propionsäure-4'-Sulfonsäure (B. 87, 4130
·. ,	C. 1904 [2] 1735). 3) 6-Oxyazobenzol-3-Propionsäure-4'-Sulfonsäure (B. 37, 4131
$\mathbf{C_{15}H_{14}N_{8}ClS}$	1) Verbindung (aus 8-Phenylamido-g Phenylthiahumeto & r. Acatal
$\mathbf{C_{15}H_{14}N_{8}JS}$	1) Methyläther d. 5-Jod-3-Merkanto-1.4-Diphenyl-4.5-Dipydro
$\mathbf{C_{15}H_{15}ONBr_{2}}$	4) 3,5-Dibrom-4'-Dimethylamido-4-Oxydinhenylmethan [8] Up.
$C_{15}H_{15}ONS$	14) 4'-Acetylamido-4-Methyldiphenylsulfid. Sm 1080 (1 mg [2] 68
	267 C. 1903 [2] 993). 15) 4-Aethoxylphenylamid d. Benzolthiocarbonsäure. Sm. 127° (B. 37, 876 C. 1904 [1] 1004).

C15H15O.NS *1) 1-Phenylsulfon-1, 2, 3, 4-Tetrahydrochinolin. Sm. 54-55 (B. 36. 2706 C. 1903 [2] 829). 5) 4'-Acetylamido-4-Methyldiphenylsulfoxyd. Sm. 182,5° (J. pr. [2] 68, 277 C. 1903 [2] 994). C15H15O2N8S 4) αγ-Diphenylthiosemicarbazidoessigsäure. Sm. 195° u. Zers. (B. 36, 3887 C. 1904 [1] 27). C15H15O2N4CL 1) 6-Chlor-3-Nitro-4-Dimethylamidobenzylidenphenylhydrazin. Sm. 166° (B. 37, 865 C. 1904 [1] 1207). $C_{15}H_{15}O_8NS$ 9) Methyl-4-[4-Methylphenylsulfon] amidophenylketon. Sm. 2030 (Soc. 85, 391 C. 1904 [1] 1404). 10) Aethyl-4-Phenylsulfonamidophenylketon. Sm. 165° (Soc. 85, 394 C. 1904 [1] 1404). 11) 4'-Acetylamido-4-Methyldiphenylsulfon. Sm. 1950 (J. pr. [2] 68, 277 C. 1903 [2] 994). 4) 2,4-Dimethyldiphenylamin - 2'-Carbonsäure-P-Sulfonsäure. Na C15H15O5NS (D. R. P. 146102 C. 1903 [2] 1152). 5) 4-Dimethylamido-2-Oxydiphenýlketon-3'-Sulfonsäure. K (B. 37, 208 C. 1904 [1] 665).

1) 3-Brom-2,4,6-Trinitro-1-Methylbenzol+Dimethylamidobenzol. $C_{15}H_{15}O_6N_4Br$ Sm. 120° (B. 37, 178 C. 1904 [1] 653).

1) Jodmethylat d. 1-0xy-2-[2-Pyridyl]-2,3-Dihydroinden. Sm. C₁₅H₁₆ONJ 130° (B. 36, 1656 C. 1903 [2] 39).
 4) α-Phenyl-β-[β-Oxy-β-Phenyläthyl]thioharnstoff. Sm. 131—132° (B. 37, 2483 C. 1904 [2] 420).
 5) Aethyläther d. 3-Oxy-s-Diphenylthioharnstoff. Sm. 138,5° (B. 36, 4102 C. 1904 [1] 271). C15H16ON2S 6) 4-Methylphenyläther d. 4-Merkapto-2-Methylphenylharnstoff. Sm. 175° (J. pr. [2] 68, 285 C. 1903 [2] 995). α-Phenylsulfon-β-Aethyl-β-Phenylharnstoff. Sm. 123,2° (B. 37, 695 C. 1904 [1] 1074). $C_{15}H_{16}O_3N_2S$ 4) 1-[4-Aethylamidobenzyliden]amidobenzol-4-Sulfonsäure (B. 37, 858 C. 1904 [1] 1206). 1) $d-\alpha-[2-Naphtylsulfonamidoacetyl]$ amidopropionsäure + H_2O . $C_{15}H_{16}O_5N_2S$ Sm. 154—155° (wasserfrei) (B. 36, 2594 C. 1903 [2] 618).

2) r-α-[2-Naphtylsulfonamidoacetyl]amidopropionsäure (β-Naphtylsulfoglycylalanin). Sm. 172—173° (B. 36, 2106 C. 1903 [1] 1304). 3) α -d-[2-Naphtylsulfonamidopropionyl]amidoessigsäure. Sm. 180,5 bis 181,5° (B. 36, 2595 C. 1903 [2] 618). 5) Piperidid d. Naphtalin-2-Sulfonsäure. Sm. 135—136° (B. 37, 3250 C. 1904 [2] 996).
 1) Phenylmonamid d. 1,2,3,4-Tetrahydro-1-Chinolylphosphin-C15H17O2NS $C_{15}H_{17}O_2N_2P$ säure (A. 326, 198 C. 1903 [1] 821). 1) 2-Thiocarbonyl-4-Keto-5,5-Dimethyl-3-Phenyltetrahydro-C15H18O4N4S imidazol-1-α-Nitrosamidoisobuttersäure. Sm. 166° (C. 1904 [2] 1028). 1) 2-Naphtylsulfonhydrazon d. 1-Arabinose. Zers. bei 175° (C. 1904 $C_{15}H_{18}O_6N_2S$ [2] 1494). /*1) Jodmethylat d. 4-Dimethylamido-4'-Oxydiphenylamin. Sm. 2180 C15H19ON2J (J. pr. [2] 69, 166 C. 1904 [1] 1268).

2) Jodmethylat d. 4-Dimethylamido-3'-Oxydiphenylamin. 199,5-200° (J. pr. [2] 69, 236 C. 1904 [1] 1269). 1) Verbindung (C. 1903 [2] 19). C15H19O8N2Cl8 1) Isoamyläther d. 3-Brom-5-Nitro-2-Oxy-1-Methyl-1, 2-Dihydro-C15H19O3N2Br chinolin. Sm. 65° (J. pr. [2] 45, 188). — IV, 266.

1) 2-Thiocarbonyl-4-Keto-5,5-Dimethyl-3-Phenyltetrahydro-C15H19O3N8S imidazol- $1-\alpha$ -Amidoisobuttersäure. Sm. 153° (C. 1904 [2] 1028). 1) Verbindung (aus Taurin u. Benzoesäureanhydrid). Sm. 175° (Č. 1903 C₁₅H₂₀ON₂S₂ [2] 986). 1) Propylamid-Di[Phenylamid] d. Phosphorsäure. Sm. 146° (A. 326, C15H20ON8P 173 C. 1903 [1] 819). 1) α -[α -Bromisocapronyl]amido- β -Phenylpropionsäure. Sm. 119 $C_{15}H_{20}O_8NBr$ bis 123° (B. 37, 3306 O. 1904 [2] 1305).
1) 1-α-[α-Bromisocapronyl] amido-α-[4-Oxyphenyl] propionsäure. Sm. 139—140° (B. 37, 2497 O. 1904 [2] 425). C₁₅H₂₀O₄NBr

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$\mathbf{C}_{15}\mathbf{H}_{20}\mathbf{N}_{8}\mathbf{S}\mathbf{I}$? 1)	Propylmonamid-Di[Phenylamid] d. Thiophosporsäure. Sm. 116° (A. 326, 204 C. 1903 [1] 821).
$C_{15}H_{21}ONB$	• •	Methyläther d. 1-[3,6-Dibrom-4-Oxy-2,5-Dimethylbenzyl]hexahydropyridin. Sm. 49 51° (A. 334, 304 C. 1904 [2] 985).
C ₁₅ H ₂₁ O ₆ Cl	•	Triacetylacetonylsiliciumchlorid. HCl, (HCl, FeCl ₈), (2 HCl, PtCl ₄), (HCl, AuCl ₈) (B. 36, 926 C. 1903 [1] 1025).
$\mathbf{C}_{15}\mathbf{H}_{21}\mathbf{N}_{2}\mathbf{J}\mathbf{S}$	•	2-Jodisobutylat d. 5-Merkapto-3-Methyl-1-Phenylpyrazol-5- Methyläther. Sm. 189—191° (A. 331, 227 C. 1904 [1] 1220).
	,	2-Jodmethylat d. 5-Merkapto-3-Methyl-1-Phenylpyrazol-5-Isobutyläther. Sm. 117° (A. 331, 202 C. 1904 [1] 1218).
$\mathbf{C}_{15}\mathbf{H}_{22}\mathbf{ON}_{5}$	•	Propylamid-Di[Phenylhydrazid] d. Phosphorsäure. Sm. 151° (A. 326, 175 C. 1903 [1] 819).
$C_{15}H_{24}ONC$	1 *1)	Caryophyllennitrosylchlorid. Sm. 158° (Ar. 241, 38 C. 1903 [1] 712).
C ₁₅ H ₂₅ O ₈ NS	s 3)	Aethylamid d. δ-Oxy-δ-Phenylheptan-δ ² -Sulfonsäure. Sm. 117 bis 118° (B. 37, 3261 C. 1904 [2] 1031).
$\mathbf{C}_{15}\mathbf{H}_{30}\mathbf{ON}_{8}$		1-Tripiperidinphosphinoxyd. Sm. 75—76° (A. 326, 200 C. 1903 [1] 821). — *IV, 10.
$\mathbf{C}_{15}\mathbf{H}_{30}\mathbf{N}_{3}\mathbf{SI}$? *1)	1-Tripiperidylphosphinsulfid. Sm. 120° (A. 326, 219 C. 1903 [1] 822). — *IV, 10.
$C_{15}H_{86}N_8SI$? 1)	Tri[Amylamid] d. Thiophosphinsäure. Fl. (A. 326, 208 C. 1903 [1] 821).
		— 15 V —
C ₁₅ H ₁₁ O ₂ NO	${ m Cl_2Br_2}$	1) N-Acetyl-?-Dichlorphenyl-3,5-Dibrom-2-Oxybenzylamin. Sm. 141,5—143,5° (A. 332, 188 C. 1904 [2] 210).
$C_{15}H_{12}O_{2}NO_{3}$	${\tt ClBr_2}$	1) N-Acetyl-2-Chlorphenyl-3,5-Dibrom-2-Oxybenzylamin. Sm. 129—130° (A. 332, 188 C. 1904 [2] 210).
$\mathbf{C}_{15}\mathbf{H}_{13}\mathbf{ON}_{2}\mathbf{I}$	BrS	1) 6-Aethyläther d. 2-Merkapto-6-Öxy-1-[3-Bromphenyl]benzimidazol. Sm. 201° (B. 36, 3869 C. 1904 [1] 92).
C ₁₅ H ₁₄ O ₈ NO	ois	 Methyl - 4 - [4 - Methylphenylsulfon] chloramidophenylketon. Sm. 93° (Soc. 85, 391 C. 1904 [1] 1404).
		2) Aethyl-4-Phenylsulfonchloramidophenylketon, Sm. 81° (Soc. 85, 394 C. 1904 [1] 1404).
$C_{15}\mathbf{H}_{15}\mathbf{ON}_{2}\mathbf{H}_{15}$	3r ₈ S	1) Verbindung (aus Acetyl-s-Diphenylthioharnstoff). Sm. 167° u. Zers. (B. 34, 3138; B. 35, 3128 C. 1903 [2] 1070).
C ₁₅ H ₁₆ ON ₂ C	CIP .	1) Phenylmonamid d. 1,2,3,4-Tetrahydro-1-Chinolylphosphin- säuremonochlorid. Sm. 174—175° (A. 326, 198 C. 1903 [1]

C_{16} -Gruppe.

$C_{16}H_{12}$	*2) 2 - Phenylnaphtalin. Sm. 101 - 102° (B. 36, 3910 C. 1903 [2] 1439;
	B. 36, 4010 C. 1904 [1] 176).
	*9) Kohlenwasserstoff (aus Naphtalin). Sm. 180—181° (Soc. 85, 220 C. 1904
	[1] 656, 939).
$C_{16}H_{14}$	*2) αδ-Diphenyl-αγ-Butadiën. Sm. 149° (C. r. 135, 1347 C. 1903 [1] 328).
	*6) 2, 6-Dimethylanthracen. Sm 215-216° (Soc. 85, 216 C. 1904 [1] 656, 939).
$C_{18}H_{18}$	*9) $\alpha\beta$ -Di 4-Methylphenyl äthen (R. 21, 453 C. 1903 [1] 503).
10 10	*14) $\alpha \alpha$ -Diphenyl- α -Buten. Sd. 286° ₇₅₀ (B. 37, 1451 C. 1904 [1] 1352).
	15) αβ-Diphenyl-α-Buten. Sm. 57°; Sd. 296—297° (B. 37, 1453 C. 1904 [1]
	1352).
	16) $\alpha\beta$ -Di[3-Methylphenyl]äthen. Sm. 55-56° (R. 21, 456 C. 1903 [1] 503).
$C_{18}H_{18}$	*11) \$\alpha\beta\$-\text{Di}[3-Methylphenyl]\text{\text{athan.}} \text{Sd. 298}\(^{\text{o}}\) (R. \text{21, 457}\(\text{C. 1903}\) [1] 503).
10 10	*21) $\alpha\beta$ -Di[4-Methylphenyl]äthan. Sm. 81—82° (R. 21, 453 C. 1903 [1] 503).
	*23) αα-Diphenylbutan. Sm. 27°; Sd. 265—266° ₇₅₁ (B. 37, 1452 C. 1904
	[1] 1352).
	25) $\alpha \beta$ -Diphenylbutan. Sd. 288—289° (B. 37, 1454 C. 1904 [1] 1353).

821).

20) αp -Diphenylbutan. Sd. 288—289° (B. 37, 1454 C. 1904 [1] 1353). 26) 2,4,2',4'-Tetramethylbiphenyl. Sm. 41°; Sd. 288°₇₂₂ (A. 332, 45 C. 1904 [2] 40). 27) 2,5,2',5'-Tetramethylbiphenyl. Sm. 50°; Sd. 284°₇₉₂ (A. 332, 46 C. 1904 [2] 40). 3) α -[2,4,6-Trimethylphenyl]- α -Hepten. Sd. 270—272° (B. 37, 931 C. 1904 [1] 1209).

 $C_{16}H_{24}$

C16H26 3) 2-Heptyl-1,3,5-Trimethylbenzol. Sd. 271—272° (B. 37, 1720 C. 1904) [1] 1489).

C16H82 4) $\beta \dot{\theta}$ -Dimethyl-s-Isoamyl- δ -Nonen. Sd. 114—115°₁₀ (C. r. 136, 816) C. 1903 [1] 1077).

— 16 II —

*2) Styrogallol. K (Soc. 83, 139 C. 1903 [1] 89, 466). C₁₆H₈O₅

C₁₆H₁₀O $\beta\beta$ -Phenylennaphtylenoxyd (Brasan). Sm. 202° (\dot{B} . 36, 2199 C. 1903

C18H10O8 *7) Anhydrid d. Diphenylmaleinsäure. Sm. 156° (Soc. 83, 289 C. 1903

 [1] 877; B. 36, 2652 C. 1903 [2] 725).
 19) Methylenäther d. 2-Keto-1-[3,4-Dioxybenzyliden]-1,2-Dihydrobenzfuran. Sm. 192° (B. 30, 1083; 32, 316). — *III, 531.
 *3) Dilakton d. Di[α-Oxybenzyl] äther-2,2'-Dicarbonsäure. Sm. 221 bis C16H10O4

 $C_{16}H_{10}O_{5}$ 223° (M. 25, 499 C. 1904 [2] 325).
5) 2-Aldehydobenzoat d. 1-Dioxymethylbenzol-2-Carbonsäure-1, 2-

Lakton. Sm. 202° (M. 25, 499 C. 1904 [2] 325). 6) 3,4-Methylenäther d. 5,6-Dioxy-2-Keto-1-[3,4-Dioxybenzyliden]- $C_{16}H_{10}O_{6}$ 1,2-Dihydrobenzfuran. Sm. 221° (B. 29, 2435). — *III, 533. 7) 1,3-Phenylenester d. Furan-2-Carbonsäure. Sm. 128-129° (B. 37,

2952 C. 1904 [2] 993). 4) Biphenyl - 3,4,3',4'-Tetracarbonsäure. Sm. noch nicht bei 250°

 $C_{16}H_{10}O_{8}$

(B. 26, 2486).

*5) Nitril d. $\alpha\beta$ -Diphenyläthen- $\alpha\beta$ -Dicarbonsäure.

*5) Normalis de $\alpha\beta$ -Diphenyläthen- $\alpha\beta$ -Dicarbonsäure. Sm. 157° (160°) C16H10N2 (C. 1903 [2] 493; B. 36, 2652 C. 1903 [2] 725; B. 36, 2862 C. 1903 [2] 1129). C 67,1 — H 3,5 — N 29,4 — M. G. 286.

C18H10N6 1) Fluorobin. Sm. noch nicht bei 300° (B. 36, 4048 C. 1904 [1] 184; B. 36, 4051 C. 1904 [1] 185).

*5) isom. Phenyl-β-Naphtylcarbazol. Sm. 134—135°: Sd. 448°, 60. Pikrat (B. 31, 1697; Soc. 83, 271 C. 1903 [1] 883; A. 332, 101 C. 1904 $C_{16}H_{11}N$ [1] 1571).

*3) 4-Methylen-2-[4-Oxyphenyl]-1,4-Benzpyran (Phenacetein) (B. 36, $C_{16}H_{12}O_{2}$ 732 *C.* **1903** [1] 840).

*24) stab. Lakton d. γ-Οχy-βγ-Diphenylpropen-α-Carbonsäure. Sm. 151,5° (Soc. 83, 292 C. 1903 [1] 877; B. 37, 3126 C. 1904 [2] 1042).

47) isom. Lakton d. α -Oxy- $\alpha\gamma$ -Diphenylpropen- γ -Carbonsäure. Sm. 284 bis 286° (Soc. 85, 1362 C. 1904 [2] 1646).

40) Methylester d. 3-Oxyphenanthren-2-Carbonsäure. Sm. 171° (B. 35, $C_{16}H_{12}O_3$ 4428 *C.* **1903** [1] 334).

41) Methylester d. 2-Oxyphenanthren-3-Carbonsäure. Sm. 126° (B. 35, 4428 C. 1903 [1] 334).

*3) 7-Oxy-4-Methylen-2-[2,4-Dioxyphenyl]-1,4-Benzpyran + H₂O C16H12O4 (Resaceteïn), $HCl + \frac{1}{2}H_2O$, Pikrat (B. 36, 733 C. 1903 [1] 839; B. 37, 363 C. 1904 [1] 671).

*32) Diphenylester d. Fumarsäure. Sd. 219°,4 (B. 35, 4086 C. 1903 [1] 75).

*43) Aethylester d. Naphtaronylessigsäure (Soc. 83, 1130 C. 1903 [2] 1060).

44) Methyläther d. αβγ-Triketo-α-Phenyl-γ-[4-Oxyphenyl]propan. Sm. 65° (B. 37, 1535 C. 1904 [1] 1609).
 45) 1,5-Dioxy-2,6-Dimethyl-9,10-Anthrachinon. Sm. 224—225° (Soc. 83, 1904).

1333 C. 1904 [1] 100).

46) 1,7-Dioxy-2,6-Dimethyl-9,10-Anthrachinon. Sm. noch nicht bei 300° (Soc. 83, 1331 C. 1904 [1] 100).

47) 3,7-Dioxy-2,6-Dimethyl-9,10-Anthrachinon. Sm. 232° (Soc. 83, 1333 C. 1904 [1] 100).

48) Dimethyläther d. 1,5-Dioxy-9,10-Anthrachinon. Sm. 230° (D.R.P. 77818). — *III, 305.

49) Dimethyläther d. 1,8-Dioxy-9,10-Anthrachinon. Sm. 215° (D.R.P. 77818). — *III, 307.

50) Dimethyläther d. 2,7-Dioxy-9,10-Anthrachinon. Sm. 215° (D.R.P. 143858 C. 1903 [2] 404).

16 11.	012 	
C16H12O4	51) Dimethyläther d. 4,5-Dioxy-9,10-Phenanthrenchinon. Sm. 19 bis 191° (B. 36, 3751 C. 1904 [1] 38).	
	52) 2-Keto-5,6-Dioxy-1-[4-Methylbenzyliden]-1,2-Dihydrobenziuran	
	53) Monomethyläther d. 5,6-Dioxy-2-Reto-1-Benzyliden-1,2-Dinydro hengfuran. Sm. 158° (B. 29, 2432). — *III, 532.	
	54) 6-Methyläther d. 3,6-Dioxy-2-Phenyl-1,4-Benzpyron. Sm. 204 bi 205° (B. 37, 775 C. 1904 [1] 1155).	ន
	55) 7-Methyläther d. 3,7-Dioxy-2-Phenyl-1,4-Benzpyron. Sm. 180	
	56) 3,4-Dioxyphonanthren-3-Methyläther-9-Carbonsäure. Sm. 264 (B. 35, 4414 C. 1903 [1] 344).	0
* **	 57) Aethylester d. 1, 2-α-Naphtopyron-4-Carbonsäure. Sm. 145—146 (B. 36, 1968 C. 1903 [2] 377). 	0
	58) Aethylester d. 3,4-β-Naphtopyron-2-Carbonsäure (Ae. d. β-Naphto cumarin-α-Carbonsäure). Sm. 115° (B. 36, 1971 C. 1903 [2] 377).	-
·	59) Diphenylester d. Maleinsäure. Sm. 73°; Sd. 226° ₁₅ (B. 35, 408°) C. 1903 [1] 75).	
C16H12O5	*3) Brasilein (B. 36, 400 C. 1903 [1] 587; B. 36, 3951 C. 1904 [1] 170 M. 25, 885 C. 1904 [2] 1313).	
	*25) isom. Dimethyläther d. 1,2,3-Trioxy-9,10-Anthrachinon. Sm. 159 bis 160°. Na. Li (M. 23, 1014 C. 1903 [1] 290).	
	26) 14-Methyläther d. 2-Keto-5,6-Dioxy-1-[4-Oxybenzyliden]-1,2-Dihydrobenzfuran. Sm. 252° (B. 37, 825 C. 1904 [1] 1152).	•
	27) isom. Monomethyläther d. Emodiń. Sm. 200° (Soc. 83, 26 C. 1904 [1] 100).	E
	28) 4,7-Dioxy-2-Phenyl-1,4-Benzpyran-4-Carbonsäure. Pikrat (B. 36 1947 C. 1903 [2] 296).	,
$C_{16}H_{12}O_6$	*4) 24-Methyläther d. 3,5,7-Trioxy-2-[4-Oxyphenyl]-1,4-Benzpyron (Kämpferid). K + H ₂ O (Soc. 83, 136 C. 1903 [1] 89, 466; B. 37, 2096	l j
	 C. 1904 [2] 121). Dimethyläther d. 1,3,5,7-Tetraoxy-9,10-Anthrachinon. Sm. 280 	
. •	bis 283° (D.R.P. 139424 C. 1903 [1] 678). 23) 1,8-Lakton d. 4-oder-5-Acetyl-1-Acetoxyloxymethylnaphtalin-	
C ₁₆ H ₁₂ O ₇	8-Carbonsäure. Sm. 183° (A. 327, 90 C. 1903 [1] 1228). 5) Cocacetin + 3H ₂ O. Sm. 260-265° (wasserfrei) (J. pr. [2] 66, 408	}
	 C. 1903 [1] 527). *14) Nitril d. αβ-Diphenyläthan-αβ-Dicarbonsäure. Sm. 224° (Soc. 83. 	
$\mathbf{C_{16}H_{12}N_{2}}$	998 C. 1903 [2] 373, 666; B. 37, 4067 C. 1904 [2] 1651). *17) 3,6-Diphenyl-1,2-Diazin (B. 36, 496 C. 1903 [1] 653).	J
	20) Nitril d. $\alpha\beta$ -Diphenyläthan- $\alpha\alpha$ -Dicarbonsäure. Sm. 97—98° (Am. 32, 129 C. 1904 [2] 954).	,
$\mathbf{C_{16}}\mathbf{E\!I_{12}}\mathbf{N_4}$	5) bim. Crotonaldazin. Sm. 95-100° (M. 24, 440 C. 1903 [2] 617). 6) Nitril d. $\alpha\beta$ -Di[2-Amidophenyl]äthen- $\alpha\beta$ -Dicarbonsäure. Sm. 265°)
	 (A. 332, 284 C. 1904 [2] 702). 7) Nitril d. αβ-Di[A-Amidophenyl]äthen-αβ-Dicarbonsäure. Sm. oberh. 	,
$\mathbf{C_{16}H_{18}N}$	300° (A. 332, 280 C. 1904 [2 701]. *2) 2-Phenylamidonaphtalin (C. 1904 [1] 1013).	
	*8) 2-Methyl-4-Phenylchinolin. Sd. 200-203620 (B. 36, 2456 C. 1903 [2] 670).	
	*18) 1-Benzylisochinolin. Sd. 211—213° ₁₁ . HCl, (2HCl, PtCl ₄), Pikrat (B. 37, 3399 C. 1904 [2] 1317).	
	*19) 3-Benzylisochinolin. Sm. 104° ; Sd. 311°_{-28} . HCl, (2 HCl, PtCl ₄ + H ₂ O), $5(\text{HCl}, \text{HgCl}_2)$, HNO ₈ , H ₂ SO ₄ , Pikrat (A. 328, 326 C. 1903 (2) 1074).	
v.	*20) 4-Benzylisochinolin. Sm. 117,5—118°; Sd. 238° ₂₈ . HCl, (2HCl, PtCl, + H_2O), (2HCl, $H_gCl_2 + \frac{1}{2}H_2O$), H_2O , H_2SO_4 , Pikrat (A. 328, 265° C. 1903 [1] 927).	
$C_{16}H_{14}O$	*6) α-Keto-αγ-Diphenyl-β-Buten. Sd. 340—345° (C. 1903 [1] 521, 880; M. 25, 431 C. 1904 [2] 336).	į
٠.	19) γ -Keto- $\alpha\beta$ -Diphenyl- α -Buten. Sm. 53—54° (M. 18, 444; 19, 411; 22, 667). — *III, 185.	
	 20) γ-Keto-αγ-Diphenyl-β-Methylpropen. Sd. 190192°₂₈ (Am. 31, 656 C. 1904 [2] 446). 	

C16H14O2 *27) Methyläther d. γ-Keto-α-[4-Oxyphenyl]-γ-Phenylpropen. HCl, HBr (B. 37, 1652 C. 1904 [1] 1603). 39) γ -Keto- δ -Phenyl- α -[2-Oxyphenyl]- α -Buten. Sd. 217—219 $^{\circ}_{12}$ (B. 37, 498 C. 1904 [1] 805). 40) 4-Methyl-3-Aethyl-1,2-α-Naphtocumarin (β-Methyl-α-Aethyl-α-Naphtocumarin). Sm. 138° (B. 36, 1968 C. 1903 [2] 376). 41) Acetat d. 2-Oxy- $\alpha\alpha$ -Diphenyläthen. Sd. 172-173% (B. 36, 4003) C. 1904 [1] 174). *1) 3,6-Dimethyläther d. 3,4,6-Trioxyphenanthren (Thebaol). Sm. 93 bis 94° (B. 35, 4400 C. 1903 [1] 341; B. 37, 3499 C. 1904 [2] 1320). *11) i-α-Phenyl-β-Benzoylpropionsäure (Soc. 85, 1360 C. 1904 [2] 1646). *12) Desylessigsäure. Sm. 161° (Soc. 83, 292 C. 1903 [1] 877). C16H14O3 *24) Anhydrid d. Phenylessigsäure (Am. 31, 265 C. 1904 [1] 1078). 59) Methyläther d. 6-Oxy-2-Phenyl-2, 3-Dihydro-1, 4-Benzpyron. Sm. 141-142° (B. 37, 774 C. 1904 [1] 1155). 60) Methyläther d. 7-Oxy-2-Phenyl-2,3-Dihydro-1,4-Benzpyron. Sm. 91° (B. 37, 1181 C. 1904 [1] 1275). 61) γ-Oxy-αβ-Diphenylpropen-γ-Carbonsäure. Sm. 125°. Ag (B. 31, 2228, 2235; B. 36, 917 C. 1903 [1] 1030; A. 333, 232 C. 1904 [2] 1389). - *II, 1011. 62) d- α -Phenyl- β -Benzoylpropionsäure. Sm. 176—178° (Soc. 85, 1368) C. 1904 [2] 1646). 63) 1- α -Phenyl- β -Benzoylpropionsäure (Soc. 85, 1368 C. 1904 [2] 1647). *9) 2-[4-Aethoxylbenzoyl]benzol-1-Carbonsäure. Sm. 135—136° (B. 36 C16H14O4 2967 C. 1903 [2] 1007). *16) $\alpha\beta$ -Diphenyläthan-2,2'-Dicarbonsäure. Sm. 231°. K₂ (B. 37, 3218) C. 1904 [2] 1120).
 *21) Dimethylester d. Biphenyl-2, 2'-Dicarbonsäure. Sm. 74,5° (A. 332, 70 C. 1904 [2] 42). *23) Dimethylester d. Biphenyl-3, 3'-Dicarbonsäure. Sm. 104° (A. 332, 72 C. 1904 [2] 42). *30) Diphenylester d. Bernsteinsäure. Sm. 121°; Sd. 222,5°₁₅ (B. 35, 4073 C. 1903 [1] 73).
*41) Dimethylester d. Biphenyl-4, 4'-Dicarbonsäure. Sm. 214° (A. 332, 73 C. 1904 [2] 43). *43) αβ-Diphenyläthan-4,4'-Dicarbonsäure. Sm. noch nicht bei 320°. (NH₄)₂, Ba, Ag₂ (B. 37, 3215 C. 1904 [2] 1120).
*48) Di[4-Methylphenylester] d. Oxalsäure (D.R.P. 137584 C. 1903 [1] 111). 54) β-Oxy-β-Phenylakryl-3-Methoxylphenyläthersäure. Sm. 110° (Soc. 83, 1134 *C.* 1903 [2] 1060). 55) Diacetat d. 3,4-Dioxybiphenyl. Sm. 77-77,5° (Am. 29, 128 C. 1903 [1] 705). *1) Brasilin (B. 36, 840 C. 1903 [1] 973). C18H14O5 20) 4'-Methoxyldiphenylmethan-2, 5-Dicarbonsäure. Sm. 265-266° (B. 36, 844 C. 1903 [1] 971). 21) α-Oxy-α-Phenylessig-4-Aldehydo-2-Methoxylphenyläthersäure Vanillinmandeläthersäure). Sm. 81-82° (D.R.P. 82924). — *III, 76. 22) 1-Oxymethylbenzol-4-Aldehydo-2-Methoxylphenyläther-4-Carbonsäure. Sm. 195° (D.R.P. 82924). - *III, 76. 23) Aldehyd d. Di[4-Oxybenzyl]äther-3,3'-Dicarbonsäure. Fl. (B. 37, 192 C. 1904 [1] 660). *2) Hesperitin (Soc. 85, 62 C. 1904 [1] 381, 729). *7) Dehydrodivanillin (C. 1904 [1] 587). $\mathbf{C_{16}H_{14}O_6}$ 21) Peroxyd d. 4 - Oxybenzolmethyläther - 1 - Carbonsäure. Sm. 128° (B. 37, 3624 C. 1904 [2] 1500).

C18H14O7

C16H14O8

*1) Lekanorsäure (Bl. [3] 31, 615 C. 1904 [2] 99; C. 1904 [2] 1504).
*3) Gyrophorsäure (J. pr. [2] 68, 62 C. 1903 [2] 513).
4) Pyrogallolsuccinein. HCl (M. 20, 450). — *II, 1224.
5) Verbindung (aus Dehydracetsäure). Sm. 214—215° u. Zers. (G. 34 [1] 346 C. 1904 [2] 195).

*21) 4-Methyl-2-[4-Amidophenyl]chinolin (Flavanilin). Sm. 97° (C. 1903 $C_{18}H_{14}N_{2}$ [1] 976).

43) 3,6-Diphenyl-?-Dihydro-1,2-Diazin. Sm. 2020 (B. 36, 496 C. 1903 $C_{16}H_{14}N_2$ [1] 653). 44) 3,6-Diphenyl-2,5-Dihydro-1,4-Diazin. Sm. 1930 (A. 330, 231 C. 1904 [1] 944). 45) 1-Methyl-4, 5-Diphenylimidazol. Sm. 147° (B. 35, 4139 C. 1903 [1] 46) 4-[4-Amidobenzyl]isochinolin. Sm. 160-161 $^{\circ}$. (2 HCl, PtCl₄ + 4 H₂O) (A. 326, 277 C. 1903 [1] 928). 47) Base (aus Acetanilid). Sm. 156°. HCl (D.R.P. 137121 C. 1903 [1] 107). 15) 4-Phenylazo-3-Methyl-1-Phenylpyrazol. Sm. 126° (B. 36, 3598 C16H14N4 C. 1903 [2] 1378). 20) 10-Amido-9-Aethylanthracen (A. 330, 174 C. 1904 [1] 891). C₁₆H₁₅N 17) 5-Phenylamido-3-Methyl-1-Phenylpyrazol. Sm. 120° (124°) (C. 1900 C16H15N3 [2] 654; B. 34, 724; B. 36, 3272 C. 1903 [2] 1188).
*6) α-Keto-αγ-Diphenylbutan. Sm. 72° (74°); Sd. 200°₁₈ (A. 330, 232 C. 1904 [1] 944; Am. 31, 655 C. 1904 [2] 446). C16H16O 25) γ -Oxy- $\alpha\gamma$ -Diphenyl- α -Buten. Fl. (Am. 31, 659 C. 1904 [2] 447). *12) $\gamma\gamma$ -Diphenylbuttersäure. Sm. 107° (C. 1904 [1] 1416). C16H16O2 *31) Aethyläther d. 6-Oxy-3-Methyldiphenylketon. Sm. 68° (B. 36, 3892 C. 1904 [1] 93).

43) Methyläther d. Oxydimethyldiphenylketon ($CH_8:CH_8:OH=1:3:4$). Sm. 52,5—53° (G. 33 [2] 63 C. 1903 [2] 996). 44) Aethyläther d. γ -Keto- α -[2-Oxy-I-Naphtyl]- α -Buten. Sm. 112° (Bl. [3] 29, 881 C. 1903 [2] 885). 45) Aethyläther d. 2-Oxy-2-Phenyl-1,2-Dihydrobenzfuran. Sm. 88—89°
 (B. 36, 4004 C. 1904 [1] 174). *10) Aethylester d. α-Oxydiphenylessigsäure. Sd. 201°21 (B. 37, 2766 $C_{16}H_{16}O_{8}$ C. 1904 [2] 708). 22) α-Oxydi[4-Methylphenyl]essigsäure. Sm. 131—132° (C. r. 136, 1201 C. 1903 [2] 22). Aldehyd d. 23) Aldehyd 3, 4-Dioxybenzol-3-Aethyläther-4-Benzyläther-1-Carbonsäure. Sm. 57° (D.R.P. 85196). - *III, 75. C16H16O4 26) Methyläther d. α-Phenyl-α-[4-Oxyphenyl]propen. Sm. 54°; Sd. 312° (B. 36, 227 C. 1904 [1] 659). 27) Diäthylester d. δ -Phenyl- $\alpha \gamma$ -Butenin- $\alpha \alpha$ -Dicarbonsäure. Fl. (B. 36, 3671 C. 1903 [2] 1313). 28) 3-Methoxyl-4-Methylphenylester d. 2-Oxy-1-Methylbenzol-3-Carbonsäure. Sm. 80-81 (D.R.P. 57941). - *II, 919. 29) 2-Methoxyl-4-Methylphenylester d. 4-Oxy-1-Methylbenzol-3-Carbonsaure. Sm. 79-81 (D.R.P. 57941). - *II, 920. 30) 2-Methoxyl-4-Methylphenylester d. 3-Oxy-1-Methylbenzol-4-Carbonsäure. Sm. 95° (D.R.P. 57941). — *II, 922. 31) Diacetat d. Podophylloresin. Sm. 198° (Soc. 73, 221). — *III, 474. $C_{16}H_{16}O_5$ 6) Diacetat d. 5,7-Dioxy-4-Methylen-2,3-Dimethyl-1,4-Benzpyran (B. 37, 1800 C. 1904 [1] 1612). 7) Diacetat d. 7,8-Dioxy-4-Methylen-2,3-Dimethyl-1,4-Benzpyran. Sm. 148° (B. 37, 1799 C. 1904 [1] 1612). C16H16O6 8) Diacetoxylnorcarencarbonsäure. Sm. 216° (B. 36, 3507 C. 1903 [2] 1274). 9) Acetat d. Purpurogallintrimethyläther. Sm. 140—143° (Soc. 83, 197 C. 1903 [1] 401, 639). C 57,1 — H 4,8 — O 38,1 — M. G. 336. $C_{18}H_{18}O_8$ 1) 1,1,6-Triacetat d. 4,5,6-Trioxy-2-Aethenyl-1-Dioxymethylbenzol-4,5-Methylenäther. Sm. 124° (B. 36, 1531 C. 1903 [2] 52). 2) Pentaacetat d. Pentaoxybenzol. Sm. 165° u. Zers. (B. 37, 123 C16H16O10 C. 1904 [1] 586). C16 H16 N2 33) γ -Phenylhydrazon- α -[4-Methylphenyl]propen. Sm. 145° (B. 36, 851 C. 1903 [1] 975).

34) Base (aus 2-Amido-5-Oxy-3, 7, 10-Trimethyl-5, 10-Dihydroakridin).
noch nicht bei 250° (Soc. 85, 532 C. 1904 [1] 1525).

35) Verbindung (aus 2-Amido-5-Oxy-3, 7, 10-Trimethyl-5, 10-Dihydroakridin)

13) 6-[4-Dimethylamidobenzyliden]amidoindazol. Sm. 198-199° (B. 37,

(C. 1904 [1] 677).

2581 C. 1904 [2] 659).

C16H16N4

- 4) 3,6-Di[4-Amidobenzyl]-1,2,4,5-Tetrazin. Sm. 166° (B. 35, 3939) C18H18N C. **1903** [1] 39). C16H16Br. 6) $\alpha\beta$ -Dibrom- $\alpha\beta$ -Di[3-Methylphenyl]äthan. Sm. 167—168° (R. 21, 456) *C.* **1903** [1] 503). C16 H16 S 2) Aethyläther d. α -Merkapto- $\alpha\beta$ -Diphenyläthen. Sd. 190-200°, (A. 329, 51 Anm. C. 1903 [2] 1448). C16H16S2 4) Cyklodi-o-Xylylendisulfid (Disulfid d. 1,2-Di[Merkaptomethyl]benzol). Sm. 234—236° (B. 36, 186 C. 1903 [1] 467). *13) 2-Benzyl-1, 2, 3, 4-Tetrahydroisochinolin. Oxalat (B. 36, 1162 C. 1903 $C_{16}H_{17}N$ [1] 1186) 14) α-Amido-αγ-Diphenyl-β-Buten. HCl, (2HCl, PtCl₄), Pikrat (M. 25, 438 C. 1904 [2] 336). 15) 4-[4-Aethylbenzyliden]amido-1-Methylbenzol. Sm. 49° (C. r. 136, 558 C. 1903 [1] 832). 12) 2-[2-Amidobenzyliden]amido-1-Aethylimidomethylbenzol. 152—153,5°. 2HCl (B. 37, 3656 C. 1904 [2] 1514). C16H17N8 2) α -Chlor- $\alpha\alpha$ -Diphenylbutan. Fl. (B. 37, 1451 C. 1904 [1] 1352). 2) P-Jod-2-Methylphenyl-4-Aethylphenyljodoniumjodid. Sm. 90° (A. 327, 296 C. 1903 [2] 352). $C_{16}H_{17}Cl$ $C_{16}H_{17}J_{3}$ C16H18O *7) α -Oxy- $\alpha\alpha$ -Diphenylbutan. Sm. 65°; Sd. 162—163°, (B. 37, 1451 C. 1904 [1] 1352).

 9) β -Oxy- $\alpha\beta$ -Diphenylbutan. Sd. 179 $^{\circ}_{14}$ (B. 37, 1452 C. 1904 [1] 1352). *3) Diäthyläther d. 4,4'-Dioxybiphenyl. Sm. 176° (A. 332, 68 C. 1904 C18H18O2 14) Dimethyläther d. $\alpha\alpha$ -Di[4-Oxyphenyl]äthan. Sm. 59,4°; Sd. 352 bis 354°₇₈₇ (C. 1904 [1] 1650).
 15) Dimethyläther d. 4,4'-Dioxy-3,3'-Dimethylbiphenyl. Sm. 145,5° (Am. 31, 121 C. 1904 [1] 809). 16) β-Aethyläther d. αβ-Dioxy-αα-Diphenyläthan. Sd. 209—210°, (C. r. 138, 91 C. 1904 [1] 505; Bl. [3] 31, 304 C. 1904 [1] 1133).
 17) Diphenyläther d. αδ-Dioxybutan. Sm. 98° (C. r. 138, 1048 C. 1904). 1] 1493). 12) Methylester d. Artemisinsäure. Fl. (C. 1903 [2] 1377). *4) 4,4'-Dimethyläther d. isom. $\alpha\beta$ -Dioxy- $\alpha\beta$ -Di[4-Oxyphenyl]äthan (Isohydranisoïn). Sm. 109° (B. 37, 1677 C. 1904 [1] 1522). C16H18O8 C16H18O4 13) $\alpha \beta$ -Dimethyläther d. $\alpha \beta$ -Dioxy- $\alpha \beta$ -Di[4-Oxyphenyl]äthan. Sm. 220° u. Zers. (A. 335, 173, 186 *C.* 1904 [2] 1129). 14) $\alpha\beta$ -Dimethyläther d. isom. $\alpha\beta$ -Dioxy- $\alpha\beta$ -Di[4-Oxyphenyl]äthan (A. 335, 174 C. 1904 [2] 1129). 15) Dimethyläther d. αβ-Dioxy-αβ-Di[4-Keto-l,4-Dihydrophenyl]äthan. Sm. 82° (A. 335, 172 C. 1904 [2] 1129).
 16) Tetramethyläther d. 2, 5, 2', 5'-Tetraoxybiphenyl. Sm. 104° (A. 332, 104°). 68 C. 1904 [2] 42). *3) Nataloin. Sm. 202° (Ar. 241, 352 C. 1903 [2] 726). C16H18O7 4) Aloïn (Feroxaloïn). Sm. 142° (Ar. 241, 341 C. 1903 |2] 725). *6) p-Dimethylenditoluidin (oder C₂₄H₂₇N₈). Sm. 136° (C. 1903 [2] 238). C16H18N2 43) Methyldi [4-Methylphenyl] formamidin. Sm. 68-69° (Soc. 85, 996 C. 1904 [2] 831). 44) m-Dimethylenditoluidin (Anhydroformaldehyd-m-Toluidin). Sm. 148 bis 149° (B. 36, 42 C. 1903 [1] 504). 45) isom. m-Dimethylenditoluidin. Sm. 183-1846 (B. 36, 42 C. 1903 [1] 504). 46) Base (aus 1,4-Anhydro-4-Methylamido-1-Oxymethylbenzol). Sm. 205 bis 210° u. Zers. 2 HČl (M. 23, 988 C. 1903 [1] 289). *1) $\alpha\beta$ -Di[Phenylhydrazon] butan. Sm. 115—116° (B. 37, 2476 C. 1904 C16H18N4 [2] 418). 18) 3, 8 - Di [Dimethylamido] diphenazon. Sm. 276°. HCl (B. 37, 31 C. 1904 [1] 524).
- C 65,3 H 6,1 N 28,6 M. G. 294. $C_{16}H_{18}N_6$ 1) 3,6-Di[4-Amidobenzyl]-1,2-Dihydro-1,2,4,5-Tetrazin. Sm. 212° (B. 35, 3939 C. 1903 [1] 39).
- 3) Di[4-Aethylphenyl]jodoniumjodid. Sm. 42° (A. 327, 291 C. 1903 C, H, J, [2] 352).

$\mathbf{C_{16}H_{18}J_2}$	4) 2,4'-Dimethyl-2'-Aethyldiphenyljodoniumjodid. Sm. 168° (J. pr. [2]
018221802	69, 444 C. 1904 [2] 590). 5) 2-Methylphenyl-4-Propylphenyljodoniumjodid. Zers. bei 123°
C 77 37	(A. 327, 314 C. 1903 [2] 354). *6) Aethylbenzyl-4-Methylphenylamin. Sd. 226° ₂₈ . Pikrat (B. 37, 2726
$\mathbf{C}_{16}\mathbf{H}_{19}\mathbf{N}$	C. 1904 [2] 592).
$\mathbf{C_{16}H_{19}N_{5}}$	15) 4-Aethylamido-3-Methylbenzylidenphenylhydrazin. Sm. 95° (B. 37, 864 C. 1904 [1] 1207).
	16) 4-Methyläthylamidobenzylidenphenylhydrazin. Sm. 114° (B. 37, 862 C. 1904 [1] 1206).
C ₁₆ H ₂₀ O	4) Benzylidenthujaketon. Sm. 170° (B. 30, 425). — *III, 140. 11) Rimusäure. Sm. 192—193°; Sd. 296—300° ₂₁ . Ba + 14H ₂ O (C. 1903)
C ₁₆ H ₂₀ O ₈	[2] 375; Soc. 85 , 1242 C. 1904 [2] 1308).
$C_{16}H_{20}O_5$	8) Dimethylester d. γ -Oxy- α -Phenyl- α -Butenäthyläther- δ δ -Dicarbonsäure. Na (A. 336, 202 C. 1904 [2] 1731).
$\mathbf{C_{16}H_{20}O_{6}}$	10) Diacetat d. 3, 6-Dioxy-2, 5-Diisopropyl-1, 4-Benzochinon. Sm. 137,5° (B. 37, 2389 C. 1904 [2] 308).
C ₁₆ H ₂₀ O ₇	9) Triäthylester d. 6-Oxybenzol-1,3-Dicarbonsäure-4-Methylcarbonsäure. Sm. 81° (B. 37, 2119 C. 1904 [2] 438).
$\mathbf{C_{16}H_{20}N_{2}}$	*12) 4,4'-Di[Aethylamido]biphenyl. Sm. 115,5—116° (B. 35, 4182, 4190 C. 1903 [1] 142; C. 1903 [1] 1128; 1903 [2] 1271).
	*14) 4,4'-Di[Dimethylamido biphenyl. Sm. 197° (198°). (2HBr, Br ₄) (B. 37, 29 C. 1904 [1] 523; B. 37, 2343 C. 1904 [2] 433; B. 37, 3765 C. 1904 [2] 1546).
$\mathbf{C_{16}H_{20}N_4}$	*1) 3,3'-Di[Dimethylamido]azobenzol. $+$ C ₆ H ₆ (B. 35, 4228 Anm.
$\mathbf{C_{16}H_{21}N}$	C. 1903 [1] 207). 5) 4-Methyl-1-Isopropyl-1, 2, 3, 4-Tetrahydrocarbazol. Sd. 202—204° ₁₄ .
	Pikrat (C. 1904 [2] 342). 6) 4-Methyl-7-Isopropylcarbazolenin. Sd. 170—171° ₁₄ . Pikrat (C. 1904
C ₁₆ H ₂₂ O	[2] 342). 3) ϑ -Oxy- ϑ -Phenyl- $\beta\zeta$ -Dimethyl- $\beta\zeta$ -Oktadiën (α -Phenylgeraniol). Sd. 175
	bis 176°_{12} (D.R.P. 153120 <i>C.</i> 1904 [2] 624).
C ₁₆ H ₂₂ O ₂	7) Benzoat d. β-Oxy-α-oder-β-Nonen. Sd. 210—211° ₅₀ (Soc. 83, 151 C. 1903 [1] 72, 436).
$C^{19}H^{33}O^{8}$	12) Aether d. 6-Oxy-4-Keto-2, 2-Dimethyl-1, 2, 3, 4-Tetrahydrobenzol. Sm. 99,5° (Soc. 83, 119 C. 1903 [1] 230, 448)
	13) Methylester d. r-Santonigen Säure. Sm. 110,5—111° (G. 25 [1] 523). — *II, 978.
$\mathbf{C}_{16}\mathbf{H}_{29}\mathbf{O}_{4}$	*2) Methylester d. Santonsäure. Sm. 85° (B. 37, 260 C. 1904 [1] 643). *5) Methylester d. Parasantonsäure. Sm. 183—184° (C. 1904 [1] 1446).
$\mathbf{C_{16}H_{22}O_{5}}$	10) Methylester d. Oxyparasantonsäure. Sm. 138—139° (C. 1903 [2]
	1377). 11) Dimethylester d. 6-Ketododekahydrobiphenylen-3,4'-Dicarbonsäure. Sd. 255° ₂₀ (Soc. 85, 429 C. 1904 [1] 1439).
$\mathbf{C}_{16}\mathbf{H}_{22}\mathbf{O}_{7}$	6) Triäthylester d. 6-Oxy-1,4-Dihydrobenzol-1,3-Dicarbonsäure-4-Methylcarbonsäure. Sm. 82° (B. 37, 2118 C. 1904 [2] 437).
	7) Triathylester d. Glutakonylglutakonsäure. Sm. 77—78° (C. r. 136)
$\mathbf{C_{16}H_{22}O_{10}}$	693 C. 1903 [1] 960). 3) Pentagetat d. 1- Quercit. Sm. 124—125°. + C ₈ H ₈ (Sm. 87—97°)
$\mathbf{C_{16}H_{22}O_{11}}$	*2) Pentaacetat d. d-Glykose (A. 331, 373 C. 1904 [11 1556)
$\mathrm{C_{16}H_{22}N_2}$	*3) isom. Pentaacetat d. d-Glykose (A. 331, 373 C. 1904 [1] 1556). *5) Phenylhydrazon d. Campher. Sd. 210° ₁₇ (B. 36, 868 C. 1903 [1]
$\mathbf{C_{16}H_{22}N_4}$	972). 9) 2,2'-Diamido-4,4'-Di[Dimethylamido]biphenyl. Sm. 166° (B. 37, 33
$C_{16}H_{24}O$	U. 1904 [1] 924).
-	8) Hexyl-2,4,6-Trimethylphenylketon. Sd. 172° ₁₅ (B. 37, 930 C. 1904) [1] 1209).
C ₁₆ H ₂₄ O ₂	8) α -Beljiabietinolsäure. Sm. 96° (Ar . 240, 591 C . 1903 [1] 164). 9) β -Beljiabietinolsäure. Sm. 96° (Ar . 240, 591 C . 1903 [1] 164).
	10) α -Palabletinolsaure. Sm. 95° (Ar. 240, 581 C. 1903 [1] 163). 11) β -Palabletinolsaure. Sm. 95° (Ar. 240, 581 C. 1903 [1] 163).
	12) Formiat d. Santalol. Sd. 175—178° (C. 1900 [2] 314). — *III, 414.

- C16H24O4 5) Methylester d. Santolsäure. Sm. 111-114° (B. 37, 260 C. 1904 [1] 6) Aethylester d. β -[5 - Keto - 4 - Methylhexahydrophenyl] propen-3-Acetessigsäure (Åe. d. Dihydrocarvonylacetessigsäure). Fl. (B. 37, 1668 C. 1904 [1] 1606). C18H24O8 9) Camphenglykolmonoglykuronsäure. K + 1½ (2) H₂O (H. 37, 200 C. 1903 [1] 594). C16H24O10 5) βγδ-Trimethylester-αα-Diäthylester d. Butan-ααβγδ-Pentacarbonsäure. Sm. 57-58° (B. 36, 3294 C. 1903 [2] 1167). C16H24Br 1) $\alpha\beta$ -Dibrom - α -[2, 4, 6-Trimethylphenyl] heptan. Fl. (B. 37, 931 C. 1904 [1] 1209). 5) α -Oxy- α -[2,4,6-Trimethylphenyl]heptan. Sd. 194 $^{\circ}_{21}$ (B. 37, 931 C16H26O C. 1904 [1] 1209). 6) Verbindung (aus Cadinen u. Formaldehyd). Sd. 180° 15 (C. r. 138, 1229 C. 1904 [2] 106). Verbindung (aus Caryophyllen u. Formaldehyd). Sd. 177—178°₁₅
 (C. r. 138, 1228 C. 1904 [2] 106). 8) Verbindung (aus Cloven u. Formaldehyd). Sd. 170 (C. r. 138, 1229 C. 1904 [2] 106). 14) 1-Menthylester d. αγ-Pentadiën-α-Carbonsäure. Sd. 173 ⁰14 (A. 327, 178 C. 1903 [1] 1396). C16H26O2 *12) Isoamylester d. Camphocarbonsäure (B. 36, 1310 C. 1903 [1] 1225; $C_{16}H_{26}O_{3}$ B. 37, 2515 C. 1904 [2] 332; B. 37, 3947 C. 1904 [2] 1569). 4) Gurjoresinolsäure. Sm. 254—255°. Na (Ar. 241, 396 C. 1903 [2] C18H26O4 724). 5) Diacetat d. Glykol C₁₂H₂₂O₂. Sd. 166-170°₁₈ (M. 24, 159 C. 1903 [1] 957) 5) Triacetat d. 1,2 - Dioxy - 4 - [α-Oxyisopropyl]-1-Methylhexahydro-C18H28O8 benzol. Sd. 193—195°₂₀ (C. 1897 [2] 417). — *III, 712. 3) Monomenthylester d. Citronensäure (C. 1903 [1] 162; B. 37, 1380 C16H26O7 C. 1904 [1] 1441). *16) Tetraäthylester d. β-Methylpropan-ααγγ-Tetracarbonsäure. Sd. 194—197°₁₄ (J. pr. [2] 68, 157 C. 1903 [2] 759). ·C18 H26 O8 C18H28O C 81,4 — H 11,8 — O 6,8 — M. G. 236. 1) Verbindung (aus Asclepias syriaca L.). Sm. 104-105° (J. pr. [2] 68, 407 C. 1904 [1] 105). C16H28O2 4) Santanolformaldehyd. Fl. (D.R.P. 148944 C. 1904 [1] 846). 5) Acetat d. 4- $[\beta$ -Oxy- β -Aethylbutyl]-1,1,5-Trimethyl-2,3-Dihydro-R-Penten. FI. (Bl. [3] 81, 464 C. 1904 [1] 1516). 6) 1-Menthylester d. α-Penten-α-Carbonsäure. Sd. 163-164°, (A. 827, 174 C. 1903 [1] 1396). 7) 1-Menthylester d. α-Penten-ε-Carbonsäure. Sd. 155-155.5% (A. 327, 176 C. 1903 [1] 1396). 8) i-Menthylester d. β -Penten- α -Carbonsäure. Sd. 149—150%, (A. 327, 175 C. 1903 [1] 1396).
 9) 1-Menthylester d. β-Penten-s-Carbonsäure. Sd. 156—157 1.4 (A. 327, 176 C. 1903 [1] 1396). 10) 1-Menthylester d. R-Pentamethylenearbonsäure. Sd. 160,5-1610,4 (A. **327**, 183 C. **1903** [1] 1396). Valerianat d. β-Oxy-α-oder-β-Undeken. Sd. 185-190% (Soc. 83, 154 C. 1903 [1] 72, 436).
 Capronat d. 1-Menthol. Sd. 153% (B. 31, 364). - *III, 333. C16H80O2 9) Scammonolsäure (C. 1904 [2] 1226). C16H80O8
- 8) Aethylester d. α-Acetoxylundekan-α-Carbonsäure. Sd. 172—1730; a C16H30O4 (Bl. [3] 29, 1127 C. 1904 [1] 261).

 *1) Agaricinsäure (D.R.P. 138713 C. 1903 [1] 546).

 *1) Palmitinsäure (M. 23, 941 C. 1903 [1] 297; B. 36, 1050 C. 1903 [1]
- C18H80O5 C16H82O2
 - *6) Aethylester d. Myristinsäure. Sd. 102° (B. 36, 4340 C. 1904 [1] 433). 16) Gallipharsäure. Sm. 54°. Ag (Ar. 242, 282 C. 1904 [1] 1654).
 - *1) α -Oxyhexadekan. Sm. 49,3°; Sd. 182—184°_{9,5} (M. 25, 346 C. 1904 [1]
- 2) $\vartheta \iota$ -Dioxyhexadekan. Sd. 200°_{12} (C. r. 136, 1677 C. 1903 [2] 419). C16Ha4O2

C16H34O

16 TTT

- 16 III -
C ₁₆ H ₈ O ₂ N ₂ *2) 5,6-Diketo-5,6-Dihydro-αβ-Naphtophenazin. Sm. 265° u. Zers.
(B. 36. 3624 C. 1903 [2] 1383).
C. H.O.N. C. 60.0 - H. 2.5 - O. 20.0 - N. 17.5 - M. G. 320.
1) Nitril d. αβ-Di[2-Nitrophenyl]äthen-αβ-Dicarbonsäure. Zers. oberh. 210° (A. 332, 283 C. 1904 [2] 702).
2) Nitril d. $\alpha\beta$ -Di[4-Nitrophenyl] athen- $\alpha\beta$ -Dicarbonsaure. Sm. 268
his 269° (A. 332, 279 C. 1904 [2] 701).
C ₁₈ H ₈ O ₆ N ₄ 4) isom. Dinitroindigo (M. 23, 1006 C. 1903 [1] 292).
C ₁₈ H ₈ O ₆ Br ₄ 1) Dimethyläther d. 2, 4, 6, 8-Tetrabrom-1, 3, 5, 7-Tetraoxy-9, 10-Anthrachinon (D. R. P. 155633 C. 1904 [2] 1487).
C ₁₆ H ₈ O ₇ N ₂ 2) Anhydrid d. $\alpha \beta$ - Di[4-Nitrophrel] β then - $\alpha \beta$ - Dicarbons α are.
Sm. 197° (A. 332, 281 C. 1904 [2] 702).
C. H.O.N. C. $53.9 - H$ $2.2 - O$ $35.9 - N$ $7.9 - M$. G. 356 .
1) Acetat d. P-Dinitro-3-Oxy-9,10-Phenanthrenchinon. Sm. 263—265 ° (A. 322, 158). — *III, 318.
C. H.O.N. C. 51.6 — H. 2.1 — O. 38.7 — N. 7.5 — M. G. 372.
1) Anhydroderivat d. 3-Nitrobenzol-l-Carbonsäure-2-Carbonsäure-
aldehyd. Sm. 248-251° (M. 24, 822 C. 1904 [1] 372).
2) Anhydroderivat d. 4-Nitrobenzol-1-Carbonsäurealdehyd-2-Carbonsäure. Sm. 224—226° (M. 24, 817 C. 1904 [1] 372).
$C_{16}H_8N_2Cl_2$ 2) 6,11-Dichlor- $\beta\beta$ -Naphtophenazin. Sm. 265° (A. 334, 360 C. 1904)
[2] 1055).
C ₁₆ H ₀ O ₂ N 9) Naphtophenoxazon. Sm. 200—211° (B. 36, 1808 C. 1903 [2] 205). C ₁₆ H ₀ O ₃ N 2) Oxyphenonaphtoxazon (B. 36, 1810 C. 1903 [2] 206).
C. H.O.N. *1) Gallorubin. Sm. hei $300^{\circ} + C.H.O.(B.37.828 C.1904 11) 1152)$.
C ₁₆ H ₁₀ O ₂ N ₂ *1) Indigo. HCl, (2HCl, PtCl ₄), HBr, H ₂ SO ₄ , 2H ₂ SO ₄ (C. 1903 [1] 640,
C ₁₆ H ₁₀ O ₂ N ₂ *1) Indigo. HCl, (2HCl, PtCl ₁), HBr, H ₂ SO ₄ , 2H ₂ SO ₄ (C. 1903 [1] 640, 1138; D.R.P. 138177 C. 1903 [1] 211; A. 325, 196 C. 1903 [1] 467; D.R.P. 138903 C. 1903 [1] 549; D.R.P. 138567 C. 1903 [1] 745; M. 24,
13 C. 1903 [1] 776; Bl. [3] 29, 756 C. 1903 [2] 628).
*3) Indirubin (B. 35, 4339 C. 1903 [1] 294; Bl. [3] 29, 756 C. 1903 [2] 628).
*12) 5,6 - Dioxy - $\alpha\beta$ - Naphtophenazin. Sm. 270° u. Zers. (B. 36, 3625
C. 1903 [2] 1383). 21) Oxim d. Naphtophenoxazon. HCl (B. 36, 1812 C. 1903 [2] 207).
$C_{16}H_{10}O_2N_4$ 9) s-Di[3-Cyanphenylamid] d. Oxalsäure (C. 1904 [2] 102).
$C_{16}H_{10}O_{8}N_{2}$ 6) Indenophenazinglykolsäure. Sm. 223—224° (B. 36, 3626 C. 1903)
[2] 1383).
$C_{16}H_{10}O_4N_4$ 6) Verbindung (aus Dioxychinopyrin). 2HCl (B. 37, 2136 C. 1904 [2] 233). $C_{16}H_{10}O_4N_6$ C 54,9 — H 2,8 — O 18,3 — N 24.0 — M. G. 350.
1) pp'-Tetrazoindigo (M. 24, 14 C. 1903 [1] 776).
$C_{16}H_{10}O_5N_2$ 6) 2-[2-Nitro-4-Oxyphenyl]amido-1,4-Naphtochinon (B. 30, 2137). —
*III, 275. $C_{16}H_{10}O_8N_2$ 4) $\alpha\beta$ -Di[2-Nitrophenyl]äthen- $\alpha\beta$ -Dicarbonsäure. Sm. 237,5° u. Zers.
(A. 332, 284 C. 1904 [2] 702).
$C_{16}H_{10}O_{10}N_2$ C 49,2 — H 2,6 — O 41,0 — N 7,2 — M. G. 390.
1) Dimethyläther d. ?-Dinitro-1,3,5,7-Tetraoxy-9,10-Anthrachinon. Sm. oberh. 300° (D.R.P. 155633 C. 1904 [2] 1487).
Sm. obern. 300° (B.R.F. 199935 C. 1994 [2] 1487). C ₁₈ H ₁₁ ON ₃ 7) 2-[4-Oxy-1-Naphtyl]-2,1,3-Benztriazol. Sm. $203-204^{\circ}$ (J. pr. [2]
67 , 584 <i>C</i> . 1903 [2] 205).
C ₁₆ H ₁₁ O ₂ N 23) 6-Benzylidenamido-1,2-Benzpyron. Sm. 150—152° (Soc. 85, 1234)
C. 1904 [2] 1124). $C_{16}H_{11}O_3N$ 32) 3,4-Methylenätherd.3-Keto-2-[3,4-Dioxybenzyliden]-2,3-Dihydro-
indol. Sm. 221° (<i>U.</i> 1903 1 34).
$C_{16}H_{11}O_3N_3$ 16) 4-Phenylazo-5-Phenylisoxazol-3-Carbonsäure. Sm. 217° (B. 37,
2206 C. 1904 [2] 323). C ₁₆ H ₁₁ O ₄ N 12) α-Phtalylamidophenylessigsäure. Sm. 168° (B. 37, 1688 C. 1904
[1] 1524).
13) Verbindung (aus Chinolin u. Pyrogallolcarbonat). Sm. 103° (B. 37.
110 C. 1904 [1] 584). C ₁₆ H ₁₁ O ₄ N ₈ 6) 8-Nitro-4-[4-Nitrobenzyl]isochinolin. Sm. 149—150° (A. 326, 283
C. 1903 [1] 928; A. 326, 285 C. 1903 [1] 929).
$C_{16}H_{11}O_5N$ 4) Lakton d. α -Oxy- γ -Keto- α -Phenyl- β -[2-Nitrophenyl] propagation
Carbonsäure. Sm. 171° (A. 333, 235 C. 1904 [2] 1390).

- $C_{16}H_{11}O_6N$ *4) Berberidinsäure (Soc. 83, 620 C. 1903 [1] 1364).
 - 5) 2-Aethyläther d. 4-Nitro-1, 2-Dioxy-9, 10-Anthrachinon (D.R.P. 150322 C. 1904 [1] 1043).
- $C_{16}H_{11}N_4Cl_3$ 1) $\beta\beta\beta$ -Trichlor $\alpha\alpha$ -Di[3-Cyanphenylamido]äthan. (C. 1904 [2] 103). Sm. 165-167°
- $C_{16}H_{11}N_4Br_3$ 2) $\beta\beta\beta$ Tribrom $\alpha\alpha$ Di[3-Cyanphenylamido] athan. Zers. bei 130° (C. 1904 [2] 103).
- C₁₆H₁₁BrJ₂ 1) 3-Bromphenyl-I-Naphtyljodoniumjodid. Sm. 133° u. Zers. (J. pr. [2]
- 69, 332 C. 1904 [2] 36).

 1) 3-Bromphenyl-1-Naphtyljodoniumbromid. Sm. 156° (J. pr. [2] 69, $\mathbf{C_{16}H_{11}Br_{2}J}$ 332 C. 1904 [2] 36).
- $C_{16}H_{12}ON_2$ *16) 2-Benzoyl-5-Phenylimidazol (Isoindileucin). Sm. 194—195° (B. 22, 2559; B. 35, 4135 C. 1903 [1] 295).
- $C_{16}H_{12}ON_4$ 3) Verbindung (aus Diacetonitril u. Isatin). Sm. oberh. 285° (J. pr. [2] 67, 511 C. 1903 [2] 252).
- $C_{16}H_{12}O_2N_2$ *10) Indigweiss (D.R.P. 137884 *C.* 1903 [1] 104).
 - 35) 6-Benzylidenhydrazido-1, 2-Benzpyron. Sm. 190-194° (Soc. 85, 1236) C. 1904 [2] 1124).
 - 36) 4-[4-Nitrobenzyl]isochinolin. Sm. 128,5—129°. HNO₃ (A. 326, 273) C. 1903 [1] 928).
- $C_{16}H_{12}O_2N_4$ 12) pp'-Diamidoindigo (M. 24, 11 C. 1903 [1] 775; M. 24, 14 C. 1903 [1] 776).
 - 13) 4-Phenylazo-5-Phenylpyrazol-3-Carbonsäure. Sm. 247-2480 u. Zers. (B. 37, 2207 C. 1904 [2] 323).
- $C_{16}H_{12}O_{2}Cl_{2}$ 3) Chlorid d. $\alpha\beta$ -Diphenyläthan-4,4'-Dicarbonsäure. Sm. 119° (B. 37,
- 3217 C. 1904 [2] 1120). $\mathbf{C_{16}H_{12}O_2Br_4}$ 1) Dimethyläther d. $\alpha\beta$ -Di[3,5-Dibrom-4-Oxyphenyl]äthen. Sm. 279 bis 280° (B. 36, 1889 C. 1903 [2] 291).
- $C_{16}H_{12}O_{2}Br_{6}$ 1) Dimethyläther d. $\alpha\beta$ -Dibrom- $\alpha\beta$ -Di[3,5-Dibrom-4-Oxyphenyl]äthan. Sm. 228—230° u. Zers. (B. 36, 1888 C. 1903 [2] 291).
- C₁₆H₁₂O₃N₂ 19) Methylester d. 1-Keto-2-Phenyl-1,2-Dihydro-2,3-Benzdiazin-4-Carbonsäure. Sm. 114° (B. 21, 1611; M. 25, 395 C. 1904 [2] 324). **- IV**, 718.
 - Phenylimid d. 3-Acetylamidobenzol-1, 2-Dicarbonsäure. Sm. 191^o
 (B. 37, 2611 C. 1904 [2] 522).
- C₁₆H₁₂O₄N₂ *1) Isatyd. Sm. 245° u. Zers. (217°?) (B. 12, 1309; 34, 1541; B. 37, 943 C. 1904 [1] 1217).
 - *9) Diacetat d. 2,3-Dioxy-5,10-Naphtdiazin. Sm. 226° (B. 35, 4305 C. 1903 [1] 344).
 - 18) 8-Nitro-1-Aethylamido-9,10-Anthrachinon (D.R.P. 144634 C. 1903 [2] 750).
 - 19) Phenylazobenzoylbrenztraubensäure. Zers. bei 140-150° (B. 37, 2208 C. 1904 [2] 323).
- $C_{16}H_{13}O_4N_4$ 8) 5-Methyl-1-Phenyl-3-[3,5-Dinitrophenyl]pyrazol. Sm. 179° (J. pr. [2]) 69, 467 C. 1904 [2] 596)
- 5) 4,8 Dinitro 1,5 Di [Methylamido] 9,10 Anthrachinon (D.R.P. C₁₆H₁₂O₆N₄ 144634 C. 1903 [2] 750).
- C₁₈H₁₂O₈N₂. 8) Di[2-Nitrophenylester] d. Bernsteinsäure. Sm. 162° (B. 35, 4082 C. 1903 [1] 74).
 - 9) Di[3-Nitrophenylester] d. Bernsteinsäure. Sm. 153° (B. 35, 4082 C. 1903 [1] 74). 10) Di[4-Nitrophenylester] d. Bernsteinsäure. Sm. 178° (B. 35, 4082
 - C. 1903 [1] 74). *2) 9 - Acetylamidoanthracen. Sm. 273-274° (A. 330, 166 C. 1904
- C16H18ON [1] 891).
 - *27) Nitril d. α-Phenyl-β-Benzoylpropionsäure. Sm. 126—127° (Soc. 85, 1358 C. 1904 [2] 1646).

 - 38) 2-[4-Oxyphenyl]amidonaphtalin. Sm. 135° (C. 1904 [1] 1013). 39) 3-[2-Oxybenzyliden]-2-Methylindol. HCl (B. 37, 323 C. 1904 [1] 668).
 - 40) 7-Oxy-2-Methyl-4-Phenylchinolin. Sm. 262°. HCl + 1½H₂O, (2HCl, PtCl₂), H₂SO₄, H₂Cr₂O₇, Pikrat, Oxalat + H₂O (B. 36, 2453) C. 1903 [2] 670).

41) 4-[4-Oxybenzyl]isochinolin. Sm. 238° (2 HCl, PtCl₄ + 2 H₂O) (A. 326, 289 C. 1903 [1] 929).

*2) 4-Amido-l-[4-Oxyphenylazo]naphtalin. Zers. bei 200° (B. 36, 4149)
C. 1904 [1] 186). C, H, ON

C16H13ON3

- *2) 10-Nitro-9-Aethylanthracen. Sm. 135° (A. 330, 173 C. 1904 [1] 891). *30) β -Cyan- $\alpha\beta$ -Diphenylpropionsäure? Sm. 196—198° (B. 37, 4067) C₁₆H₁₈O₂N C. 1904 [2] 1651).
 - 35) 1-Methylamido-2-Methyl-9,10-Anthrachinon. Sm. 114° (D.R.P. 144634 C. 1903 [2] 750).

36) 4-Amido-1-Benzoyl-2-Methylbenzfuran. Sm. 138° (B. 36, 1261 C. 1903 [1] 1184).

37) Methyläther d. 5-Phenyl-3-[4-Oxyphenyl]isoxazol. Sm. 121°

(Soc. 85, 1326 C. 1904 [2] 1645). .38) Methyläther d. 4-Oxy-1-Keto-3-Phenyl-1,2-Dihydroisochinolin. Sm. 235—240° (B. 20, 2868; B. 37, 1690 C. 1904 [1] 1524).

39) 2-Cinnamylidenamidobenzol-1-Carbonsaure. Sm 163-164° (B. 37, 595 C. 1904 [1] 881).

40) Phenylimid d. α -Phenyläthan- $\alpha\beta$ -Dicarbonsäure. Sm. 137—138° (Soc. 85, 1367 C. 1904 [2] 1646).

 $C_{16}H_{13}O_2N_3$ *19) Nitril d. 2,6-Diketo-4-[4-Isopropylphenyl]-1,2,3,6-Tetrahydropyridin-3,5-Dicarbonsäure. NH₄, Cu + 8H₂O, Ag, Coniinsalz (A. 325, 213 C. 1903 [1] 439).

22) 4-[3-Nitro-4-Amidobenzyl]isochinolin. Sm. 231-232° (A. 326, 281 C. 1903 [1] 928).

23) Methylester d. 1,5-Diphenyl-1,2,3-Triazol-4-Carbonsäure. Sm. 135—136° (B. 35, 4048 C. 1903 [1] 169).

24) Benzoat d. 5-Oxy-4-Methyl-1-Phenyl-1, 2, 3-Triazol. Sm. 91° (A. 335, 94 C. 1904 [2] 1232).

3) 4-Semicarbazon-5-Keto-1,3-Diphenyl-4,5-Dihydropyrazol. Sm. $C_{18}H_{18}O_{2}N_{5}$ 205,5° (B. 36, 1135 C. 1903 [1] 1254).

 $C_{16}H_{18}O_{2}Cl$ *1) β -Chlor- $\alpha\delta$ -Dioxy- $\alpha\delta$ -Diphenyl- $\alpha\gamma$ -Butadiën (α -Chlordiphenacyl). Sm. 117° (B. 36, 2395 C. 1903 [2] 498).

*2) isom. β -Chlor- $\alpha\delta$ -Dioxy- $\alpha\delta$ -Diphenyl- $\alpha\gamma$ -Butadiën (β -Chlordiphenacyl). Sm. 155° (B. 36, 2395 C. 1903 [2] 498). 6) δ-Chlordiphenacyl. Sm. 189° (B. 36, 2403 C. 1903 [2] 499).

 $C_{18}H_{18}O_{2}Br$ *2) isom. β -Brom- $\alpha\delta$ -Dioxy- $\alpha\delta$ -Diphenyl- $\alpha\gamma$ -Butadiën (β -Bromdiphenacyl). Sm. 161° (B. 36, 2395 C. 1903 [2] 498).

*3) β -Brom- $\alpha\delta$ -Dioxy- $\alpha\delta$ -Diphenyl- $\alpha\gamma$ -Butadiën (α -Bromdiphenacyl). Sm. 129° (B. 36, 2395 C. 1903 [2] 498).

 5) β-Jod-αδ-Dioxy-αδ-Diphenyl-αγ-Butadiën (α-Joddiphenacyl). Sm. 90°
 u. Zers. (B. 36, 2407 C. 1903 [2] 500). C16H18O2J

6) isom. β -Jod- $\alpha\delta$ -Dioxy- $\alpha\delta$ -Diphenyl- $\alpha\gamma$ -Butadiën (β -Joddiphenacyl). Sm. 105° (B. 32, 533; B. 36, 2409 C. 1903 [2] 500). — *III, 229.

isom. β-Jod-αδ-Dioxy-αδ-Diphenyl-αγ-Butadiën (δ-Joddiphenacyl).
 Sm. 150-153° (B. 36, 2411° C. 1903 [2] 500).

 β -Jod- $\alpha\delta$ -Diketo- $\alpha\delta$ -Diphenylbutan (γ -Joddiphenacyl). Sm. 121° (B. 36, 2407 C. 1903 [2] 499).

*2) 10 - Nitro - 9 - Keto-10-Aethyl - 9,10 - Dihydroanthracen. Sm. 1020 $C_{18}H_{18}O_{8}N$ (A. 330, 176 C. 1904 [1] 891).

27) 3,4-Methylenäther d. Methyl-4-[3,4-Dioxybenzyliden]amidophenylketon. Sm. 147° (B. 37, 393 C. 1904 [1] 657).

28) 3,4-Methylenäther d. γ -Keto- γ -[4-Amidophenyl]- α -[3,4-Dioxyphenyl]propen. Sm. 198—200° (B. 37, 393 C. 1904 [1] 657).

29) 4-Aethylamido-1-Oxy-9,10-Anthrachinon (D.R.P. 154353 C. 1904 [2] 1013).

30) 6,7-Dioxy-1-Keto-2-Benzyl-1,2-Dihydroisochinolin. Sm. 225° (B. 37, 531 C. **1904** [1] 819). 31) Phenylamidoformiat d. 4-Oxymethylbenzfuran. Sm. 90° (B. 37,

201 *C*. **1904** [1] 661). 32) 4-Aethoxylphenylimid d. Benzol-1,2-Dicarbonsäure (2 isom. Formen).

Sm. 206,5° (B. 36, 1002 C. 1903 [1] 1132). $C_{16}H_{18}O_8N_8$ 10) δ -Phenylazo- γ -Keto- α -[4-Nitrophenyl]- α -Buten. Sm. 210° u. Zers. (B. 36, 1450 C. 1903 [1] 1345).

- - 12) Acetat d. 3-Acetylamido-2-Oxy-5,10-Naphtdiazin. Sm. 230° (B. 35, 4305 C. 1903 [1] 344).
- C₁₆H₁₈O₃N₅ *2) 5-Keto-4-[4-Nitrophenyl]azo-3-Methyl-1-Phenyl-4,5-Dihydropyrazol. Sm. 198° (C. r. 139, 135 C. 1904 [2] 588).
- C₁₆H₁₈O₈Cl
- Methylester d. α-Benzoyl-α-[4-Chlorphenyl]essigsäure. Sm. 176° (J. pr. [2] 67, 387 C. 1903 [1] 1357).
 αγ-Lakton d. β-Brom-αγ-Dioxy-βγ-Diphenylbuttersäure. Sm. 105° u. Zers. (A. 333, 233 C. 1904 [2] 1390). $C_{18}H_{18}O_8Br$
- C₁₆H₁₈O₄N 23) 4-Methyläther d. β-Oximido-αγ-Diketo-α-Phenyl-γ-[4-Oxyphenyl]-propan. Sm. 127° (B. 37, 1535 C. 1904 [1] 1609).
 24) 6-Methyläther d. 3-Oximido-6-Oxy-2-Phenyl-2,3-Dihydro-1,4-
 - Benzpyron. Sm. 160° u. Zers. (B. 37, 775 C. 1904 [1] 1155).
 - 25) 7-Methyläther d. 3-Oximido-7-Oxy-2-Phenyl-2,3-Dihydro-1,4-Benzpyron. Sm. 188° u. Zers. (B. 37, 1181 C. 1904 [1] 1275).
 26) Acetat d. 10-Nitro-9-Oxy-9,10-Dihydroanthracen. Sm. 120° u. Zers.
 - (A. 330, 158 C. 1904 [1] 890).
- 10) α-Benzoylamidophenylessigsäure-α²-Carbonsäure. Sm. 162-163° C18H18O5N (B. 37, 1690 C. 1904 [1] 1524).
- $C_{16}H_{18}O_{6}N_{8}$ *1) 9,9,10 Trinitro-10-Aethyl-9,10-Dihydroanthracen. Sm. 136° u. Zers. (A. 330, 175 C. 1904 [1] 891).
 - 3) Diacetat d. 6-Nitro-3, 3'-Dioxyazobenzol. Sm. 141° (J. pr. [2] 67, 268 C. 1903 [1] 1221).
- Nitril d. β-Imido-γ-Phenyl-α-[4-Chlorphenyl] buttersäure. Sm. 67 bis 70° (J. pr. [2] 67, 392 C. 1903 [1] 1357).
 5-Chlor-4-Phenylazo-3-Methyl-1-Phenylpyrazol. Sm. 109° (B. 36, C₁₆H₁₈N₂Cl
- C18H18N4Cl 3597 C. 1903 [2] 1378).
- $C_{16}H_{14}ON_3*19)$ 3-[4-Methylphenyl]imido-2-Keto-5-Methyl-2, 3-Dihydroindol. Sm. 259° (A. 332, 261 C. 1904 [2] 699).
 - *37) 2,5-Di [2-Methylphenyl]-1, 3,4-Oxdiazol. Sm. 121°. $+ 2 \text{AgNO}_{s}$ $(J. pr. [2] 69, 374 \vec{C}. 1904 [2] 535).$
 - *38) 2, 5-Di[3-Methylphenyl]-1,3,4-Oxdiazol. Sm. 72°. + AgNO₃ (J. pr. [2] 69, 376 C. 1904 [2] 535).
 - *39) 2,5-Dibenzyl-1,3,4-Oxdiazol. Sm. 98° (J. pr. [2] 69, 378 C. 1904
 - 50) 2,5 Di[4 Methylphenyl]-1,3,4 Oxdiazol. Sm. 175°. + AgNO₃
 - (J. pr. [2] 69, 377 C. 1904 [2] 535). 51) Methyläther d. 3-Phenyl-5-[4-Oxyphenyl]pyrazol. Sm. 170° (C. r. 136, 1264 C. 1903 [2] 122).
 - 52) 6-Keto-2,4-Diphenyl-3,4,5,6-Tetrahydro-1,3-Diazin. Sm. 180°. (2 HCl, PtCl₄) (Soc. 83, 377 C. 1903 [1] 845, 1144; Soc. 83, 722 C. 1903 [2] 54)
- *1) 5 Keto 4 Phenylhydrazon 3 Methyl-1-Phenyl-4,5-Dihydro-C16H14ON4 pyrazol. Sm. 156 (B. 36, 2687 C. 1903 [2] 1009; J. pr. [2] 70, 379 C. 1904 [2] 1719).
 - 8) 5-Acetylamido-1,4-Diphenyl-1,2,3-Triazol. Sm. 1720 (B. 35, 4058 C. 1903 [1] 171).
 - 9) 3-Acetylamido -1, 5-Diphenyl -1, 2, 4-Triazol. HCl (Am. 29, 78 C. 1903 [1] 523).
- 6) Methyläther d. β ,? Dibrom- α -Phenyl- α -[4-Oxyphenyl] propen. Sm. 98—99° (B. 37, 229 C. 1904 [1] 659). C16H14OBr
- *1) $\alpha\beta$ Di[Benzoylamido]äthen. Sm. 202—203° (B. 37, 3115 C. 1904 $C_{16}H_{14}O_{2}N_{2}$ [2] 1316).
 - 43) 1,5-Di[Methylamido]-9,10-Anthrachinon (D.R.P. 144634 C. 1903 [2] 750; B. 37, 70 C. 1904 [1] 666; D.R.P. 156056 C. 1904 [2] 1631).
 44) 1,8-Di[Methylamido]-9,10-Anthrachinon (D.R.P. 144634 C. 1903
 - [2] 750; D.R.P. 156056 C. 1904 [2] 1631). 45) 3,3'-Diacetylazobenzol. Sm. 1056 (C. 1903 [2] 112).

 - 46) 4-Oxy-3-Keto-1-Methyl-2, 5-Diphenyl-2, 3-Dihydropyrazol. Sm. 221° (B. 36, 1137 C. 1903 [1] 1254).
 - 47) γ -Phenylhydrazon- α -Phenylpropen- γ -Carbonsäure. Sm. 158° (B. 36, 2528 C. 1903 [2] 496).

- C₁₈H₁₄O₂N₂ 48) Methylester d. Azobenzol-4-Akrylsäure. Sm. 145° (C. r. 135, 1117 C. 1903 [1] 286).
 - 49) 3,3'-Dimethyl-4,4'-Biphenylenamid d. Oxalsäure. Sm. 335° (M. 25, 385 C. 1904 [2] 320).
- γγ-Dichlor-αδ-Dioxy-αδ-Diphenyl-α-Buten. Sm. 164° (B. 36, 2400 C. 1903 [2] 498). C16H14O2Cl2
- γγ-Dibrom-αδ-Ďioxy-αδ-Diphenyl-α-Buten. Sm. 145° u. Zers. (B. 36, 2402 C. 1903 [2] 499). $\mathbf{C}_{16}\mathbf{H}_{14}\mathbf{O}_{2}\mathbf{Br}_{2}$ 6)
 - 7) Acetat d. $\alpha\beta$ -Dibrom-2-Oxy- $\alpha\alpha$ -Diphenyläthan. Sm. 83° (B. 36, 4003 *C.* **1904** [1] 174).
- 2) Disulfid d. 1-Methylbenzol-2-Thiolcarbonsäure. Sm. 62-75 (B. 36, C₁₆H₁₄O₂S₂ 1012 C. 1903 [1] 1078).
 - 3) Disulfid d. 1-Methylbenzol-4-Thiolcarbonsäure. Sm. 116° (B. 36, 1012 C. 1903 [1] 1078).
- 26) α -Acetyl- $\alpha\beta$ -Dibenzoylhydrazin. Sm. 169—170° (J. pr. [2] 70, 275 $C_{18}H_{14}O_8N_2$ C. 1904 [2] 1544). 27) 3,3'-Diacetylazoxybenzol. Sm. 137,5° (130—131°) (C. 1903 [2] 112;
 - B. 36, 1618 C. 1903 [2] 36).
 - 28) 2,5-Diketo-l-Phenyl-4-[4-Oxybenzyl]tetrahydroimidazol. Sm. 1840 (B. 36, 3345 C. 1903 [2] 1176).
 - 3-Aethylester d. Azobenzol-3-Carbonsäure-3'-Carbonsäurealdehyd.
 Sm. 156° (B. 36, 3474 C. 1903 [2] 1269).
 - 30) 4-Aethylesterd. Azobenzol-4-Carbonsäure-4' Carbonsäurealdehyd. Sm. 60° (B. 36, 3475 C. 1903 [2] 1270).
 - 31) Benzoylamid d. Benzoylamidoessigsäure. Sm. 179° (Soc. 81, 1532 C. 1903 [1] 157).
- $\mathbf{C_{16}H_{14}O_{8}N_{4}} \quad 12) \ \gamma\text{-Phenylhydrazon} \delta\text{-Oximido-}\alpha\text{-[3-Nitrophenyl]-}\alpha\text{-Buten.} \quad \text{Sm. 99}$ bis 100° (C. 1904 [1] 28; A. 330, 253 C. 1904 [1] 946).
- $C_{10}H_{14}O_0Br_2$ 1) $\beta\gamma$ -Dibrom- α -Oxy- $\beta\gamma$ -Diphenylbuttersäure. Zers. bei 144° (A. 333, 233 C. 1904 [2] 1390).
 - 4-Acetat d. 3,5-Dibrom-α,4-Dioxydiphenylmethan-α-Methyläther. Sm. 97° (A. 334, 382 C. 1904 [2] 1052).
- $C_{16}H_{14}O_4N_2$ 15) $\alpha\beta$ -Dibenzoylhydrazidoessigsäure. Sm. 195° u. Zers. Ag (J. pr. [2] 70, 277 C. 1904 [2] 1544).
 - 16) $\alpha\beta$ -Di[2-Amidophenyl]äthen- $\alpha\beta$ -Dicarbonsäure (A. 332, 270 C. 1904 [2] 700).
 - 17) isom. $\alpha\beta$ -Di[2-Amidophenyl]äthen- $\alpha\beta$ -Dicarbonsäure (A. 332, 270 C. 1904 [2] 700).
 - 18) $\alpha\beta$ -Di[4-Amidophenyl]äthen- $\alpha\beta$ -Dicarbonsäure (4. 332, 282 C. 1904 [2] 702).
 - 19) polym. 3-Methylenamidobenzol-1-Carbonsäure. (B. 36, 51 C. 1903 [1] 505). Sm. 175-200°
 - 20) Dimethylester d. Azobenzol-2,2'-Dicarbonsäure. Sm. 101° (A. 326, 346 C. 1903 [1] 1130).
 - 21) Dimethylester d. Azobenzol-3,3'-Dicarbonsäure. Sm. 163° (corr.) (A. 326, 343 C. 1903 [1] 1130).
 - 22) Dimethylester d. Azobenzol-4, 4'-Dicarbonsäure. (A. 326, 338 C. 1903 [1] 1130). Sm. 242° (corr.)
 - 23) Diacetat d. 3,3'-Dioxyazobenzol. Sm. 137° (J. pr. [2] 67, 267 C. 1903 [1] 1221).
- 24) Acetylderivat d. Verb. $C_{14}H_{12}O_3N_2$ (J. pr. [2] 70, 330 C. 1904 [2] 1541). 9) γ-Phenylhydrazon-α-[2, 4-Dinitrophenyl]-α-Buten. Sm. 191° (M. 23, C₁₆H₁₄O₄N₄ 1006 C. 1903 [1] 292).
- 1) $\alpha\beta$ -Dimethyläther d. $\alpha\beta$ -Dioxy- $\alpha\beta$ -Di[3,5-Dichlor-4-Oxyphenyl]- $C_{16}H_{14}O_4Cl_4$ äthan. Sm. 242° (A. 325, 56 C. 1903 [1] 462).
 - 2) $\alpha\beta$ -Dimethyläther d. isom. $\alpha\beta$ -Dioxy- $\alpha\beta$ -Di[3,5-Dichlor-4-Oxy-phenyl]äthan. Sm. 168° (A. 325, 57 C. 1903 [1] 462).
- C₁₆H₁₄O₄Br₂ 3) Verbindung (aus ?-Brom-8-Oxy-5, 7-Dimethylfluoron). Sm. 117—118° (M. 25, 329 C. 1904 [1] 1495). C₁₆H₁₄O₄Br₄ 1) $\alpha\beta$ -Dimethyläther d. $\alpha\beta$ -Dioxy- $\alpha\beta$ -Di[3, 5-Dibrom-4-Oxyphenyl]-
- äthan. Sm. 209° (A. 325, 37 C. 1903 [1] 461).
 - 2) $\alpha\beta$ -Dimethyläther d. isom. $\alpha\beta$ -Dioxy- $\alpha\beta$ -Di[3,5-Dibrom-4-Oxy-phenyl]äthan? Sm. 160° (A. 325, 38 C. 1903 [1] 461).

- C14H14O4S2 5) Dibenzyldisulfid-αα'-Dicarbonsäure. Sm. 198—200° (C. 1903 [2] 2) Dibenzyltrisulfid-ua'-Dicarbonsäure (Trithiodiphenylessigsäure). Sm. $C_{16}H_{14}O_4S_8$ 145-148° (C. 1903 [2] 1271). $C_{16}H_{14}O_5N_2$ *4) Dimethylester d. Azoxybenzol-2, 2'-Dicarbonsäure. (corr.) (A. 326, 346 C. 1903 [1] 1130). 9) α -Phenyl- β -[2-Diazo-3-Oxy-4-Methoxylphenyl]akrylsäure. Zers. bei 150° (B. 35, 4413 C. 1903 [1] 343). 10) Dimethylester d. Azoxybenzol-3, 3'-Dicarbonsäure. Sm. 134° (136—136,5°) (A. 326, 344 C. 1903 [1] 1130; B. 36, 2313 C. 1903 [2] 430). 11) Dimethylester d. Azoxybenzol-4,4'-Dicarbonsäure. Sm. 207° (corr.) (A. 326, 340 C. 1903 [1] 1130; B. 36, 2314 C. 1903 [2] 430). 12) Diacetat d. 4,4'-Dioxyazoxybenzol. Sm. 169° (B. 3 C. 1904 [1] 187) $C_{18}H_{14}O_8N_2$ 13) Dimethyläther d. P-Diamido-1,3,5,7-Tetraoxy-9,10-Anthrachinon (D.R.P. 155633 C. **1904** [2] 1487). $C_{16}H_{14}O_{10}N_4$ C 45,5 - H 3,3 - O 37,9 - N 13,3 - M. G. 422. 1) Dimethyläther d. ?-Tetranitro-4,4'-Dioxy-3,3'-Dimethylbiphenyl. Sm. 130,5° (Am. 31, 127 C. 1904 [1] 809). ${^{\mathrm{C}_{16}\mathrm{H}_{14}\mathrm{NCl}}_{\mathrm{C}_{16}\mathrm{H}_{14}\mathrm{N}_{2}\mathrm{S}}}$ *4) Chlorbenzylat d. Chinolin. Sm. 170° (Bl. [3] 29, 135 C. 1903 [1] 584). *1) 2,5-Dibenzyl-1,3,4-Thiodiazol. Sm. 98° (J. pr. [2] 69, 381 C. 1904 [2] 535). *3) 2,5-Di[4-Methylphenyl]-1,3,4-Thiodiazol. Sm. 156-158° (J. pr. [2] **69**, 380 C. **1904** [2] 535). 1) 3,5-Di[4-Methylphenyl]-1,2,4-Selendiazol. Sm. 116° (B. 37, 2553) $C_{16}H_{14}N_2Se$ C. 1904 [2] 520). 2) 5-Merkapto-4-Phenylazo-3-Methyl-1-Phenylpyrazol (B. 37, 2775 C16H14N48 C. 1904 [2] 711). *6) anti-α-Oximido-αγ-Diphenyl-β-Buten. Sm. 78° (B. 37, 731 C. 1904 [1] 1012; M. 25, 435 C. 1904 [2] 336). $\mathbf{C_{16}H_{15}ON}$ 31) γ-Oximido-αβ-Diphenyl-α-Buten. Sm. 153° (M. 19, 410; 20, 739; 22, 667). — *III, 185. 32) syn-α-Oximido-αγ-Diphenyl-β-Buten. Sm. 134° (B. 37, 732 C. 1904 $[\bar{1}]$ 1012; M. 25, 433 \bar{C} . 1904 [2] 336). 33) γ -Keto- γ -[4-Amidophenyl]- α -[4-Methylphenyl] propen. HCl (B. 37, **3**93 *O.* **1**9**04** [1] 657). 34) d-1-Benzoyl-2-Methyl-2,3-Dihydroindol. Sm. 1190 (Soc. 85, 1335 C. 1904 [2] 1657). 35) 1-1-Benzoyl-2-Methyl-2, 3-Dihydroindol. Sm. 119° (Soc. 85, 1333 G. 1904 [2] 1657).
 Methyläther d. 3-Methyl-2-[4-Oxyphenyl]indol. Sm. 123° (B. 37, 870 C. 1904 [1] 1154). 37) Benzyloxydhydrat d. Chinolin. Chlorid, d-Camphersulfonat (Bl. [3] 29, 135 C. 1903 [1] 584). 38) Phenylamid d. β -Phenylpropen- α -Carbonsäure. Sm. 121° (B. 37, 734 C. 1904 [1] 1012; C. r. 138, 987 C. 1904 [1] 1439). 39) Phenylamid d. Phenylisocrotonsäure. Sm. 89-90° (B. 37, 2001 C. 1904 [2] 24). 15) 5-Oxy-1-Phenyl-3- $[\beta$ -Phenyläthyl]-1,2,4-Triazol. Sm. 182—183° C18H15ON8 (B. 36, 1102 C. 1903 [1] 1140). 2) γ-Chlor-α-Keto-α-Phenyl-β-Methylpropan. Sm. 83° (Am. 31, 656 C18H15OCl C. **1904** [2] 446). 1) Methyläther d. β -Brom- α -Phenyl- α -[4-Oxyphenyl] propen. Sm. 51 bis 52° (B. 37, 228 C. 1904 [1] 659). C16H15OBr $C_{16}H_{15}O_2N$ *35) Imid d. Phenylessigsäure. Sm. 195° (B. 36, 747 C. 1903 [1] 827). 50) γ-[3-Oxyphenyl]imido-α-Oxy-α-Phenyl-α-Buten. Sm. 160° (B. 36, 2451 C. 1903 [2] 670). 51) 4-Propionylamidodiphenylketon. Sm. 139° (C. 1903 [1] 1137).
 - 52) 4-Acetylamido-3-Methyldiphenylketon. Sm. 175° (Soc. 85, 593 C. 1904 [1] 1554). Sm. 159° (Soc. 85, 595 53) 6-Acetylamido-3-Methyldiphenylketon. C. 1904 [1] 1554). 54) Aethyl-4-Benzoylamidophenylketon. Sm. 190° (C. 1903 [1] 1223).

C₁₆H₁₅O₂N 55) 3-Keto-1-Oxy-2-Aethyl-1-Phenyl-1, 2-Dihydroisoindol. Sm. 166 bis 167°. HCl (B. 37, 388 C. 1904 [1] 669).

23) Benzylidenhydrazid d. 2-Acetylamidobenzol-1-Carbonsäure. Sm. $C_{16}H_{15}O_{2}N_{8}$ 180° u. Zers. (J. pr. [2] 69, 98 C. 1904 [1] 729).

 $C_{18}H_{15}O_8N$ *18) $r-\alpha$ -Benzoylamido- β -Phenylpropionsäure. Sm. 185° (B. 36, 4313) C. 1904 [1] 448).

49) 10-Nitro-9-Oxy-9-Aethyl-9,10-Dihydroanthracen. Sm. 1660 u. Zers. (A. 330, 172 C. 1904 [1] 891).

50) 3-Methyläther d. Methyl-4-[3,4-Dioxybenzyliden]amidophenylketon. Sm. 167° (B. 37, 396 C. 1904 [1] 658).

51) γ-Oximido-αγ-Diphenylbuttersäure. Sm. 83-87°. + C_eH_a (Soc. 85. 1364 *C.* **1904** [2] 1646).

52) Methylester d. 4 - Benzoyl - 2 - Methylphenylamidoameisensäure. Sm. 107° (Soc. 85, 593 C. 1904 [1] 1554).

53) Methylester d. 2 - Benzoyl - 4 - Methylphenylamidoameisensäure.

Sm. 110° (Soc. 85, 596 C. 1904 [1] 1554).

54) Aethylester d. Phenylbenzoylamidoameisensäure. Sm. 67—68° (Am. 30, 35 C. 1903 [2] 363).55) Phenylmonamid d. α-Phenyläthan-αβ-Dicarbonsäure. Sm. 170 bis

171º (Soc. 85, 1367 C. 1904 [2] 1646). C₁₈H₁₅O₈N₈ 56) Benzoylhydrazid d. Benzoylamidoessigsäure. Sm. 213" (J. pr. [2]

70, 106 C. 1904 [2] 1030). 57) 2 - Oxybenzylidenhydrazid d. 2 - Oxybenzylidenamidoessigsäure. Sm. 189-191° (J. pr. [2] 70, 104 (J. 1904 [2] 1036).

26) Dimethyläther d. 10-Nitro-9, 9-Dioxy-9, 10-Dihydroanthracen. $C_{16}H_{15}O_4N$ Sm. 135° u. Zers. (A. 330, 183 C. 1904 [1] 892).

27) α -Phenyl- β -[2-Amido-3-Oxy-4-Methoxylphenyl akrylsäure. Sm. 180° (B. 35, 4413 U. 1903 [1] 343).

28) 4-Acetylamidophenylester d. 2-Oxy-1-Methylbenzol-3-Carbonsäure. Sm. 181⁶ (D.R.P. 70714). — *II, 919.

30) 4-Acetylamidophenylester d. 3-Oxy-1-Methylbenzol-4-Carbonsäure. Sm. 198 (D.R.P. 70714). — *II, 922.

31) a-Phenylamidoformiat d. 3,4-Dioxy-1-[a-Oxyathyl]benzol-3,4-Methylenäther. Sm. 65 - 67 6 (B. 36, 3595 C. 1903 [2] 1366.

32) 4-Aethoxylphenylmonamid d. Benzol-1, 2-Dicarbonsäure. Sm. 160 bis 165° (B. 36, 998 C. 1903 [1] 1131).

 $C_{18}H_{15}O_4N_8$ 11) α -[2,4-Dinitrophenyl]- β -[4-Dimethylamidophenyl] äthen. Sm. 181° (B. 37, 1744 C. 1904 [1] 1599).

12) Aethyläther d. Benzoylimido-3-Nitrophenylamidooxymethan. Sm. 86-88° (Am. 32, 366 C. 1904 [2] 1507).

13) α -Acetyl- α -Phenyl- β -[5-Nitro-2-Oxy-3-Methylbenzyliden|hydrazin. Sm. 241—242° (B. 37, 3919 C. 1904 [2] 1594).

14) α -Acetyl- α -Phenyl- β -[5-Nitro-4-Oxy-3-Methylbenzyliden]hydrazin.

14) α-Acetyl-α-1 hebyt-μ-1-11.
 Sm. 188—189° (B. 37, 3928 C. 1904 [2] 1595).
 15) α-Acetyl-α-Phenyl-β-[5-Nitro-6-Oxy-3-Methylbenzyliden|hydrazin. Sm. 252—253° (B. 37, 3924 C. 1904 [2] 1595).

16) Acetat d. α-Phenyl-β-[5-Nitro-2-Oxy-3-Methylbenzyliden]-hydrazin. Sm. 205-206° (B. 37, 3920 C. 1904 [2] 1594). 17) Acetat d. α - Phenyl - β - [5 - Nitro - 4 - Oxy-3 - Methylbenzyliden]-

hydrazin. Sm. 162-163° (B. 37, 3928 C. 1904 [2] 1595).

18) Acetat d. α-Phenyl-β-[5-Nitro-6-Oxy-3-Methylbenzyliden]-hydrazin. Sm. 155-156° (B. 37, 3924 C. 1904 [2] 1595).

C₁₈H₁₅O₅N *15) Diacetat d. 5-Acetylamido-1,4-Dioxynaphtalin. Sm. 165* (A. 335,

150 C. 1904 [2] 1136).
17) Methylbetain d. 2-[3,4-Dimethoxylbenzoyl pyridin-4-Carbonsäure 3H2O (M. d. Pyropanaverinsaure). (2HCl, PtCl, + 2H2O) (M. 24, 702 C. 1903 [2] 1262; M. 24, 715 C. 1904 [1] 218).

5) 4-Methyläther d. 5-Nitro-3-Acetoxyl-4-Oxy-1-Phenylhydrazon- $\mathbf{C}_{16}\mathbf{H}_{15}\mathbf{O}_{5}\mathbf{N}_{8}$ methylbenzol. Sm. 165° (B. 35, 4398 C. 1903 11 341).

 $C_{16}H_{15}O_6N$ 3) Diäthylester d. 4-Nitronaphtalin-1,8-Dicarbonsäure. Sm. 80° (A. 327, 82 C. 1903 [1] 1227).

- C, AH, KNoBr 3) α-Brom-γ-Phenylhydrazon-α-Phenyl-α-Buten. Sm. 97° u. Zers. (Soc. 85, 464 C. 1904 [1] 1438).
- *3) Aethyläther d. 3-Merkapto-1,5-Diphenyl-1,2,4-Triazol. Sm. 99 C, H, N, S bis 100° (J. pr. [2] 67, 242 C. 1903 [1] 1263).
 - 4) 4-Aethyl-1,5-Diphenyl-4,5-Dihydro-1,2,4-Triazol-3,5-Sulfid. Sm. 232° (J. pr. [2] 67, 227 O. 1908 [1] 1261).
 5) 5-Methyl-1-Phenyl-4-Benzyl-4,5-Dihydro-1,2,4-Triazol-3,5-Sulfid.
 - Sm. 205° (J. pr. [2] 67, 256 C. 1903 [1] 1265.
- 37) α -Methylimido- α -Benzoylmethylamido- α -Phenylmethan. C18H18ON bis 117,5°. (2 HCl, PtCl₄) (Soc. 83, 324 C. 1903 [1] 581, 876).
 - 38) Methyläther d. 7-Phenylhydrazon-α-[4-Oxyphenyl]propen. Sm. 136 bis 137° (B. 36, 853 C. 1903 [1] 976).
 39) Aethyläther d. 6-Oxy-1-[2-Methylphenyl]benzimidazol. Sm. 77
 - bis 78° (B. 36, 3862 C. 1904 [1] 91).
 - 40) Anhydro-2-Methylamidobenzol-1-Carbonsäurealdehyd. bis 140° (B. 37, 985 C. 1904 [1] 1079).
- C₁₆H₁₆O₂N₂*23) Dimethyläther d. Di[4-Oxybenzyliden]hydrazin. Sm. 160° (B. 37. 3422 C. 1904 [2] 1294).
 - *47) 3-Diphenylamid d. Bernsteinsäure. Sm. 2260 (C. 1903 [2] 432).
 - *51) s-Di[4-Methylphenylamid] d. Oxalsäure. Sm. 263° (A. 332, 265 C. 1904 [2] 700).
 - *64) s-Di[2-Methylbenzoyl]hydrazin. Sm. 217° (J. pr. [2] 69, 372 C. 1904 [2] 534).
 - *65) s-Di[3-Methylbenzoyl]hydrazin. Sm. 214-216° (J. pr. [2] 69, 373 C. 1904 [2] 534).
 - *66) s-Di[4-Methylbenzoyl]hydrazin. Sm. 250° (J. pr. [2] 69, 374 C. 1904 [2] 534).
 - *70) αβ-Dibenzoyl-α-Aethylhydrazin. Sm. 133° (J. pr. [2] 70, 278 C. 1904 [2] 1545).
 - 75) Di[6-Oxy-3-Methylbenzyliden]hydrazin. Sm. 122° (B. 37, 3187 C. 1904 [2] 991).
 - 76) Monoacetylderivat d. α -Keto- $\alpha\beta$ -Di[4-Amidophenyl]äthan. Sm. 198 bis 205° (A. 325, 75 C. 1903 [1] 463).
 - 77) 4-Oxy-3-Acetylphenylhydrazonmethyl-1-Methylbenzol. Sm. 126° (B. 35, 4106 C. 1903 [1] 149).
 - 78) Di[2-Oxy-3-Methylbenzyliden]hydrazin. Sm. 229° (B. 35, 4106 C. 1903 [1] 149).
 - 79) 5-Methyläther d. 5,6-Dioxy-3-Allylazobenzol (Benzolazoeugenol). Sm. 76—77° (B. 37, 4135 C. 1904 [2] 1736). 80) 5-Methyläther d. 5,6-Dioxy-3-Propenylazobenzol (Benzolazoiso-
 - eugenol) (B. 37, 4135 C. 1904 [2] 1736).
 - 81) 4-Methylphenylimido-4-Methylphenylamidoessigsäure (Soc. 85, 995 C. 1904 [2] 831).
 - 82) Phenylamid d. α-Benzoylamidopropionsäure. Sm. 163-165° (J. pr. [2],70, 147 C. 1904 [2] 1394).
- $C_{14}H_{16}O_2N_4*13$) Aethylester d. α -Phenylazo- α -Phenylhydrazonessigsäure. Sm. 116—117° (Bl. [3] 31, 83 C. 1904 [1] 580).
- 24) Benzylidenhydrazid d. β-Phenylureïdoessigsäure. Sm. 227° u. Zers.
- (J. pr. [2] 70, 248 C. 1904 [2] 1463).
 3) Di[2-Brom-4-Methylphenyläther] d. αβ-Dioxyäthan. Sm. 156° $C_{16}H_{16}O_{9}Br_{9}$ (B. 36, 2875 C. 1903 [2] 834).
- 1) αα-Dimerkaptopropionphenylbenzyläthersäure. Sm. 72° (B. 36, $C_{16}H_{16}O_2S_2$ 302 C. 1903 [1] 500).
- $C_{18}H_{18}O_{9}N_{2}$ 48) Phenylamid d. α -Phenylamidoformoxylpropionsäure. Sm. 155—156° (Bl. [3] 29, 124 C. 1903 [1] 564).
- 5) Methyläther d. α-Phenylamidoformylimido-α-Phenylureïdo-α-Oxy-C16H16O3N4 methan. Sm. 153°. 3 HCl (C. 1904 [2] 29).
 - 6) α-[3-Nitrobenzyliden]amido-β-Aethyl-α-Phenylharnstoff. Sm. 153° B. **36**, 1377 C. **1903** [1] 1344).
- C1AH18O8Cl2
- δ-Acetat d. isom. γγ-Dichlor-αδ-Dioxy-αδ-Diphenyl-α-Buten. Sm. 98° (B. 36, 2396 C. 1903 [2] 498).
 Aldehyd d. β-[4-Methylphenyl]sulfon-β-Phenylpropionsäure. Sm. 78° (Am. 31, 170 C. 1904 [1] 876). *III, 66. $C_{16}H_{16}O_{8}S$

- C₁₆H₁₆O₄N₂ *27) Di[Phenylamid] d. d-Weinsäure. Sm. 250° u. Zers. (Soc. 83, 1355) C. 1904 [1] 84).
 - 43) α -[β -Phenylureido]- β -[4-Oxyphenyl]propionsäure + $\frac{1}{2}$ $\frac{1}{$
 - 44) Phenylhydrazon d. Maticosäurealdehyd. Sm. 163° (B. 35, 4359) C. 1903 [1] 331).
 - 45) Phenylhydrazon d. Verb. $C_{10}H_{10}O_6$. Sm. 249° (B. 36, 3231 C. 1903) [2] 941).
 - 46) Aethylester d. 4, 6-Dioxy-2-Methylazobenzol-3-Carbonsäure. Sm. 142° (B. 37, 1418 C. 1904 [1] 1417).
 7) β-[4-Methylphenyl]sulfon-β-Phenylpropionsäure. Sm. 197—198°.
- C16H16O4S
- Na $+ 2H_2$ Ö, Ca, Ba $+ 4H_2$ Ö (Am. 31, 171 C. 1904 [1] 876). 3) Cyklodi-o-Xylylendisulfon. Sm. oberh. 320° (B. 36, 187 C. 1903 C16H16O4S2 [1] 467).
- $C_{16}H_{16}O_5N_2$ 7) 1-Phenacetylamido-2,5-Dimethylpyrrol-3,4-Dicarbonsaure. 216-217° u. Zers. (B. 35, 4320 C. 1903 [1] 336).
- 2) γ -Phenylhydrazon- α -Oxy- α -[2, 4-Dinitrophenyl] butan. $C_{16}H_{16}O_5N_4$ 2270
- 2) y-Phenynyarazon-a-Oxy-a-[2, 4-Dinitrophenynyaran. Sin. 221° u. Zers. (M. 23, 1005 C. 1903 [1] 292).

 4) 4-Dimethylamidobenzaldehyd + 2,4,6-Trinitro-1-Methylbenzol. Sm. 60° (B. 37, 1745 C. 1904 [1] 1600).

 C 52,7 H 4,4 O 35,2 N 7,7 M. G. 364.

 1) 2,5,2',5'-Tetramethyl-1,1'-Bipyrrol-3,4,3',4'-Tetracarbonsäure C₁₆H₁₆O₇N₄ $C_{16}H_{16}O_8N_2$
- H₂O. Sm. oberh. 290° u. Zers. (B. 37, 2700 C. 1904 [2] 532).
- 5) Diphenyläther d. $\alpha\delta$ -Diimido- $\alpha\delta$ -Dimerkaptobutan. HCl (B. 36, 3467 C. 1903 [2] 1244). $C_{16}H_{16}N_2S_2$
 - 6) Aethyläther d. 5-Merkapto-2, 3-Diphenyl-2, 3-Dihydro-1, 3, 4-Thio-
- diazol. Sm. 70° (J. pr. [2] 67, 240 C. 1903 [1] 1263).

 1) Dimethyläther d. Di[Phenylimidomerkaptomethyl] sulfid. 84-85° (B. 36, 2285 C. 1903 [2] 561).

 2) Sulfid d. Methylphenylamidodithioameisensäure. Sm. 150 C16H16N2S8
 - Sm. 150—151° (B. 36, 2281 C. 1903 [2] 560).
- *1) Dimethyläther d. Di[Phenylimidomerkaptomethyl]disulfid. $C_{16}H_{16}N_2S_4$ 123° (B. 36, 2264 C. 1903 [2] 562).
 - st3) Disulfid d. Methylphenylamidodithioameisensäure. Sm. 1980 (B. 36, 2274 *C.* **1903** [2] 563).
- C16H16N4S 6) 2,5-Di[4-Amidobenzyl]-1,3,4-Thiodiazol. Sm. 148° (B. 35, 3940 O. 1903 [1] 39).
- $C_{16}H_{16}Br_{2}S_{2}$ 1) Cyklodi-o-Xylylendibromdisulfid. Sm. 110-1120 (B. 36, 187 C. 1903 [1] 467).
- 64) Aethyläther d. α -[4-Oxyphenyl]imido- α -Phenyläthan. Sm. 88°; C16H17ON Sd. 210-212°₇₂ (D.R.P. 87897, 98840). — *III, 99.
 - 65) Aethyläther d. α -Benzylimido- α -Oxy- α -Phenylmethan. Sd. 186 bis
 - 188°₁₂ (Soc. 83, 328 C. 1903 [1] 581, 876). 66) α -Oximido- $\alpha\gamma$ -Diphenylbutan. Sm. 93° (Am. 31, 655 C. 1904 [2] 446). 67) Benzylamid d. β -Phenylpropionsäure. Sm. 85° (B. 37, 2704 C. 1904 [2] 518).
 - 68) Aethylbenzylamid d. Benzolcarbonsäure. Sd. 214-216% (Soc. 83, 408 C. 1903 [1] 833).
 - 69) Aethyl-2-Methylphenylamid d. Benzolcarbonsäure. Sm. 71-72° (Soc. 83, 408 C. 1903 [1] 833)
 - 70) Aethyl-4-Methylphenylamid d. Benzolcarbonsäure. Sm. 38-40° (Soc. 83, 408 C. 1903 [1] 833).
- 18) 5-Acetylamido 2-Methyl N´ Aethyl α oder β Naphtimidazol -C₁₆H₁₇ON₈ ¹/₂ H₂O. Sm. 184—185°. (HCl, AuCl₉), Pikrat (Soc. 83, 1188 C. 1903 [2] 1444).
- $C_{16}H_{17}O_2N$ *27) Phenylamidoformiat d. 4-[α -Oxyäthyl]-1-Methylbenzol. Sm. 95—96° (B. 36, 1636 C. 1903 [2] 26).
 - 34) γ-Hydroxylamido-α-Keto-αγ-Diphenylbutan (Dypnonhydroxylamin). Sm. 109—110° (112°). Oxalat (C. 1903 [1] 521; A. 330, 229 C. 1904 [1] 944).
 - 35) Methyläther d. 4-Dimethylamido-3'-Oxydiphenylketon. Sm. 67° (D. R. P. 65952). — *III, 153.
 - 36) Phenylamidoformiat d. α-Oxyisopropylbenzol. Sm. 113° (B. 36, 1863 Anm. C. 1903 [2] 286).

- C₁₆H₁₇O₂N₃ 29) 4-Methylphenylamid d. β-Phenylureïdoessigsäure. Sm. 229° (J. pr. [2] 70, 250 C. 1904 [2] 1463).
- C,,H,,O,N 19) 1-Methyläther d. 4-[Acetyl-2-Oxybenzyl]amido-1-Oxybenzol. Sm. 98° (Ar. 240, 682 C. 1903 [1] 395).
 - 20) Phenylamidoformiat d. 3,4-Dioxy-1-Propylbenzol. Sm. 142° (C. r. 138, 425 C. 1904 [1] 798).
 - 21) α-Phenylamidoformiat d. 2-Oxy-1-[α-Oxyäthyl]benzol-2-Methyl-
 - äther. Sm. 106° (B. 36, 3588 C. 1903 [2] 1365). 22) α -Phenylamidoformiat d. 3-Oxy-1-[α -Oxyäthyl] benzol-3-Methyl-
 - äther. Fl. (B. 36, 3591 C. 1903 [2] 1366).
 23) α-Phenylamidoformiat d. 4-Oxy-1-[α-Oxyäthy1]benzol-4-Methyläther. Sm. 82—83° (B. 36, 3592 C. 1903 [2] 1366).
 - 24) 4-Aethoxylphenylimid d. 1,2,3,4-Tetrahydrobenzol-5,6-Dicarbonsäure. Sm. 137° (B. 36, 1005 C. 1903 [1] 1132).
- 4) Benzylester d. β-Phenylureïdomethylamidoameisensäure. Sm. 204° (J. pr. [2] 70, 252 C. 1904 [2] 1464).
 5) Phenylamidoformiat d. α-[β-Oxyäthyl]-β-Phenylharnstoff. Sm. 195° C18H17O8N8
 - (B. 36, 1280 C. 1903 [1] 1215).
- 6) 4-Aethoxylphenylamidomethyl-3,4-Dioxyphenylketon. Sm. 1050 C₁₆H₁₇O₄N
 - (D.R.P. 71312). *III, 109. 7) Aethylester d. α -Cyan- β -Butyroxyl- β -Phenylakrylsäure. Fl. (Bl. [3] **31**, 337 *C*. **1904** [1] 1135).
- C, H, N, S 7) Methyläther d. α -[α -Phenyl- β -Benzylidenhydrazido]- α -Methylimido-α-Merkaptomethan. Sm. 136—137° (B. 37, 2332 C. 1904 [2] 314).
 - 8) α -Benzylidenamido- β -Methyl- α -Benzylthioharnstoff. Sm. 147 $^{\circ}$ (B. 37, 2327 C. 1904 [2] 313
- 1) Methyläther d. α -[β -Phenylthioureïdo]- α -[2-Methylphenyl]imido- α -Merkaptomethan. Sm. 114-115° (Am. 30, 179 C. 1903 [2] 872). C16H17N8S2
 - 2) Methyläther d. α -[β -Phenylthioureido]- α -[4-Methylphenyl]imido- α -Merkaptomethan. Sm. 93° (Am. 30, 174 C. 1903 [2] 871). 3) Methyläther d. α -Phenylamidothioformylimido- α -Methylphenyl-
 - amido-α-Merkaptomethan. Sm. 133—134° (Am. 30, 177 C. 1903 [2]
 - 4) Methyläther d. α -[4-Methylphenylthioureïdo]- α -Phenylimido- α -Sm. 114—115° (Am. 30, 180° C. 1903 [2] 872).
 - Merkaptomethan. Sm. 114—115° (Am. 30, 180° C. 1903 [2] 872). 5) Aethyläther d. α -[β -Phenylthioureïdo]- α -Phenylimido- α -Merkaptomethan. Sm. 91-93° (Am. 30, 181 C. 1903 [2] 873)
 - 6) Dimethyläther d. Di[Phenylimidomerkaptomethyl]amin. Sm. 103 bis 104°. HJ (Am. 30, 177 C. 1903 [2] 872).
- 2) P-Jod-2-Methylphenyl-4-Aethylphenyljodoniumehlorid. 2 + HgCl₂, 2 + PtCl₄ (A. 327, 296 C. 1903 [2] 352).
 2) P-Jod-2-Methylphenyl-4-Aethylphenyljodoniumbromid. Sm. 120° C18H17ClJ2
- C16H17BrJ2 (A. 327, 296 C. 1903 [2] 352).
- C16H18ON2 *8) α -Phenylamido- β -Phenylacetylamido α than. Sm. 128° (A. 332, 213 C. 1904 [2] 212).
 - *47) Phenylamid d. β -Phenylamidobuttersäure. Sm. 93°. HCl (B. 36, 1266 C. 1903 [1] 1219).
 - *49) Benzylamid d. Benzylamidoessigsäure. HCl (Ar. 240, 633 C. 1903 [1] 24).
 - 74) 5-Oxy-6-Phenylhydrazonmethyl-1,2,4-Trimethylbenzol. Sm. 144° (B. **35**, 4104 C. **1903** [1] 149).
 - 75) 2-Amido-5-Oxy-3,7,10-Trimethyl-5,10-Dihydroakridin. Sm. 184° (C. 1904 [1] 676).
 - Sm. 120° (122°)
 - 76) Phenylamid d. P Phenylamidoisobuttersäure.
 (B. 24, 1042; B. 36, 1270 C. 1903 [1] 1219).
 77) Phenylhydrazid d. dl β Phenylisobuttersäure.
 (Soc. 85, 446 C. 1904 [1] 1445). Sm. 116-117°
- 9) 3,8-Di[Dimethylamido]diphenazonoxyd. Sm. 242° (B. 37, 30 C. 1904 C16H18ON4 [1] 524).
- 2) P-Jod-2-Methylphenyl-4-Aethylphenyljodoniumhydrat. Salze siehe C18H18OJ2 (A. 327, 295 C. 1903 [2] 352).
- C₁₆H₁₈O₂N₂ *13) Diäthyläther d. 4,4'-Dioxyazobenzol. Sm. 158° (B. 36, 3163 C. 1903 [2] 947).
 - *25) Mesoporphyrin (H. 43, 11 C. 1904 [2] 1572).

C₁₈H₁₉NCl

 $C_{18}H_{18}O_2N_2$ 26) Dimethyläther d. 2,2'-Di[Oxymethyl]azobenzol. Sm. 68,5° (C. r. 137, 522 C. 1903 [2] 1060).

C₁₈H₁₈O₂N₄ 25) 4,4'-Di[Aethylnitrosamido]biphenyl. Sm. 163° (C. 1903 [1] 1128; B. 35, 4184 C. 1903 [1] 143).

26) 3-Amido-4-Methylphenylamid d. β -Phenylureïdoessigsäure. Sm. 193° (J. pr. [2] 70, 251 \tilde{C} . 1904 [2] 1463).

27) Di 2 - Amidophenylamid d. Bernsteinsäure. 2HCl (A. 327, 22 C. 1903 [1] 1336).

28) Di[3-Amido-4-Methylphenylamid] d. Oxalsäure. Sm. 180° (D.R.P.

156177 C. 1904 [2] 1675). C₁₆H₁₈O₃N₂ *8) Diäthyläther d. 4,4'-Dioxyazoxybenzol. Sm. 137,4—137,9° (B. 37, 46 C. 1904 [1] 654).

C₁₆H₁₈O₄N₄ *4) Di[Phenylhydrazid] d. d-Weinsäure. Sm. 245° (231° u. Zers.) (R. 21,

312 C. 1903 [1] 137; Soc. 83, 1363 C. 1904 [1] 84).
*5) 2,2'-Dinitro-4,4'-Di[Dimethylamido]biphenyl. Sm. 229,5° (B. 37, 29 C. 1904 [1] 523).

6) Ricinin (Ricidin) oder $C_{16}H_{16}O_4N_4$. Sm. 194° (193°). $+2HgCl_2$ (C. 1895 [1] 853; 1900 [1] 612; B. 30, 2197; J. 1864, 457; 1870, 877). — III, 931; *III, 690

7) Di[Phenylhydrazid] d. Traubensäure. Sm. 220° (R. 21, 312 C. 1903 [1] 137).

C18H18O4S2 5) β -Phenylsulfon- β -Benzylsulfonpropan. Sm. 125—126° (B. 36, 304) C. 1903 [1] 500).

6) αα-Di[Benzylsulfon]äthan. Sm. 130° (B. 36, 298 C. 1903 [1] 499).

3) Diäthylamidobenzol + 1,3,5-Trinitrobenzol. Sm. 42-42,5° (Soc. $C_{16}H_{18}O_6N_4$ 83, 1342 C. 1904 [1] 100).

C18H18O9N2 1) Säure (aus Nitrocodeïn) (B. 36, 3068 C. 1903 [2] 953).

1) Chlormethylat d. Verb. $C_{15}H_{16}N_4Cl$. $HCl + 2H_2O$, $(HCl, PtCl_4 + H_2O)$ (B. 37, 557 C. 1904 [1] 893). C₁₆H₁₈N₄Cl₂

3) 2-Methylphenyl-4-Propylphenyljodoniumchlorid. Sm. 133° u. Zers. 2 + PtCl₄ (A. 327, 313 C. 1903 [2] 353).
4) Di[4-Aethylphenyl]jodoniumchlorid. Sm. 150°. + HgCl₂, 2 + PtCl₄ C18H18ClJ

+ 3H₂O (A. 327, 290 C. 1903 [2] 352).
5) 2, 4'- Dimethyl - 2'- Aethyldiphenyljodoniumchlorid.
2 + PtCl₄ (J. pr. [2] 69, 445 C. 1904 [2] 590).

3) 2-Methylphenyl-4-Propylphenyljodoniumbromid. Sm. 133° u. Zers. $C_{16}H_{18}BrJ$ (A. 327, 313 C. 1903 [2] 353).

4) Di[4-Aethylphenyl]jodoniumbromid. Sm. 145° (A. 327, 290 C. 1903

5) 2,4-Dimethyl-2'-Aethyldiphenyljodoniumbromid. Sm. 175° (J. pr. [2] **69**, 445 *C*. **1904** [2] 590).

11) 5-[2-Oxybenzyl]amido-1, 2, 4-Trimethylbenzol. Sm. 172-173° (Ar. C,,H,,ON

240, 688 C. 1903 [1] 395).
3) 2, 4-Dimethyl-2'-Aethyldiphenyljodoniumhydroxyd. Salze siehe C16H19OJ (J. pr. [2] 69, 444 C. 1904 [2] 590).

15) 4-Phenylimido-6-Oxy-5-Acetyl-2, 2-Dimethyl-1, 2, 3, 4-Tetrahydro- $C_{16}H_{19}O_{2}N$ benzol. Sm. 129—130° (B. 37, 3381 C. 1904 [2] 1219). 16) Benzoat d. Pulegenonoxim. Sm. 104—105° (A. 327, 133 C. 1903

[1] 1412). C16H19O2N8 5) Acetat d. 5-Oxy-1-Phenyl-3-Hexahydrophenyl-1, 2, 4-Triazol. Sm.

107-108° (B. 36, 1097 C. 1903 [1] 1140).

C₁₆H₁₉O₄N 12) 4-Aethoxylphenylmonamid d. 1, 2, 3, 4-Tetrahydrobenzol-5, 6-Dicarbonsaure. Sm. 145° (B. 36, 999 C. 1903 [1] 1131).

C 50.4 - H 5.0 - O 34.6 - N 11.0 - M. G. 381.C16H19O8N8

Verbindung (aus Cyanessigsäuremethylester u. Acetylcyanessigsäuremethylester). Sm. 135° (Bl. [3] 31, 530 C. 1904 [1] 1554).

 $C_{16}H_{19}O_9N$ C 52,0 — H 5,1 — O 39,0 — N 3,8 — M. G. 369.

1) Diäthylester d. Mono[3-Nitro-4-Methylbenzoyl] weinsäure. Sm.104 bis 105° (Soc. 83, 172 C. 1903 [1] 389, 628).

1) 2-[\(\alpha\)-(Chlor\)\(\text{cost}\), \(\frac{1}{3}\), \(\frac{1}{3}\)-Trimethylbenzol + Pyridin. Sm. 107—108°. + \(\text{HgCl}_2\), \(2 + \text{PtCl}_4\), + \(\text{AuCl}_3\), + \(\text{CdJ}_2\) (B. 36, 1642 C. 1903 [2] 27). 1) Chlor\(\text{Chlor\)\(\text{chlor}\) $C_{16}H_{19}N_4Cl$ 553 C. 1904 [1] 893).

- C₁₆H₂₀ON₂ *17) Aethyläther d. 6-Oxy-3,4'-Dimethyl-s-Diphenylhydrazin. Sm. 55 (B. 36, 3856 O. 1904 [1] 90). *21) Phenylhydrazoncampher. Enolform Sm. 180—181° (Soc. 81, 1514 C. 1903 [1] 162). 26) Aethyläther d. 4-Oxy-2,2'-Dimethyl-s-Diphenylhydrazin. Sm. 80° (B. 36, 3854 C. 1904 [1] 90). 6) Methyloxydhydrat d. 3-Amido-7-Dimethylamido-2-Methyl-5,10-Naphtdiazin. Nitrat (A. 327, 123 C. 1903 [1] 1221).
 7) Methylhydroxyd d. Verb. C₁₅H₁₆N₄. Chlorid, Nitrat (B. 37, 553 C. 1904 CIGH20ON [1] 893). $C_{16}H_{20}O_2N_2$ 13) Dimethyläther d. $\alpha\beta$ -Dioxy- $\alpha\beta$ -Di[4-Amidophenyl]äthan. Sm. 203 bis 204° (A. 325, 48 Anm. C. 1903 [1] 462).

 C₁₀H₂₀O₅N₂ *1) 2-Naphtylhydrazon d. Galaktose. Sm. 189° (B. 35, 4446 C. 1903 [1] 392). *3) 2-Naphtylhydrazon d. d-Glykose. Sm. 178—179° (B. 35, 4446 C. 1903 [1] 392). *4) isom. 2-Naphtylhydrazon d. d-Glykose. Sm. 95,5° (B. 37, 3854) C. 1904 [2] 1711). 7) 2-Naphtylhydrazon d. Lävulose. Sm. 161-162° (B. 35, 4445 C. 1903 [1] 392). 8) 2-Naphtylhydrazon d. d-Mannose. Sm. 186-187° u. Zers. (B. 36, 3202 C. 1903 [2] 1055). 2) Dilaktam d. δs -Diimidooktan- $\gamma \gamma \zeta \zeta$ -Tetracarbonsäure- $\gamma \zeta$ -Diäthylester. Sm. 156° (A. 332, 127 C. 1904 [2] 189). $C_{16}H_{20}O_6N_2$ 1) 1-Methyläthylphenylbenzylammoniumbromid. Sm. 155-156° (Soc. $C_{18}H_{20}NBr$ 85, 231 C. 1904 [1] 938). 2) i-Methyläthylphenylbenzylammoniumbromid. Sm. 155-156° (Soc. 85, 231 *C.* 1904 [1] 938). 1) Dimethyldibenzylammoniumjodid. Sm. 186—187,5° (Soc. 83, 1413 $C_{16}H_{20}NJ$ C. 1904 [1] 438). 2) d-Methyläthylphenylbenzylammoniumjodid. Sm. 146—147° (Soc. 83, 1419 C. 1904 [1] 439; Soc. 85, 227 C. 1904 [1] 652, 938). 3) 1-Methyläthylphenylbenzylammoniumjodid. Sm. 146-147° (Soc. 85, 228 C. 1904 [1] 652, 938). 4) i-Methyläthylphenylbenzylammoniumjodid. Sm. 145—146° (140,5°) (Soc. 83, 1419 C. 1904 [1] 439; Soc. 85, 224 C. 1904 [1] 652, 938; A. 334, 238 C. 1904 [2] 900). 1) Diphenochinon-NN'-Tetramethyldiimoniumchlorid. 2 + PtOl, + 2H₂O (B. 37, 3769 C. 1904 [2] 1547). $\mathbf{C}_{16}\mathbf{H}_{20}\mathbf{N}_{2}\mathbf{Cl}_{2}$ 1) Diphenochinon-NN'-Tetramethyldiimoniumjodid. + J, (B. 37, 3769 $C_{16}H_{20}N_2J_2$ C. 1904 [2] 1547). *8) Phenylamid d. Pulegensäure. Sm. 124° (A. 227, 128 C. 1903 C18H21ON [1] 1412). 9) d-Methyläthylphenylbenzylammoniumhydroxyd. d-Camphersulfonat (Soc. 83, 1419 C. 1904 [1] 439; Soc. 85, 226 C. 1904 [1] 652, 938). 10) i-Methyläthylphenylbenzylammoniumhydroxyd. l-Camphersulfonat Soc. 85, 226 C. 1904 [1] 652, 938). 11) 1-Oximido - 5 - Methyl - 3 - [4-Isopropylphenyl] -1,2,3,4-Tetrahydrobenzol. Sm. 124° (A. 303, 243). — *III, 140.
 *1) Phenylhydrazon d. Oximidocampher. Sm Sm. 138° (Soc. 85, 909 C16H21ON8 C. 1904 [2] 597). $2) \ 4 - [1 - \texttt{Piperidy1}] - 3 - \texttt{Keto-1}, 5 - \texttt{Dimethyl-2-Phenyl-2}, 3 - \texttt{Dihydro-phenyl-2}, 3 - \texttt{Dihydro-phenyl$ pyrazol. Sm. 145° (D.R.P. 145603 C. 1903 [2] 1225). 14) Benzoat d. α-Methyltropin. HCl (A. 326, 10 C. 1903 [1] 778). 15) Benzoat d. Pseudomethyltropin. HCl (A. 326, 18 C. 1903 [1] 778). $C_{18}H_{21}O_{2}N$ 3) Methylester d. α-[α-Benzoylamidoacetylamidopropionyl]amidopropionsäure. Sm. 180-181° (J. pr. [2] 70, 123 C. 1904 [2] 1037).
 9) Diphenochinon-NN'-Tetramethyldiimoniumhydrat. Salze (B. 37, $C_{16}H_{21}O_{5}N_{3}$ $C_{16}H_{22}O_2N_2$
- 3768 C. 1904 [2] 1547).
 C 60,4 H 6,9 O 15,1 N 17,6 M. G. 318.
 1) Isopropylidenhydrazid d. β-Benzoylamidoacetylamidobuttersäure.
 Sm. 145° (J. pr. [2] 70, 209 C. 1904 [2] 1460).
 1) Diäthylester d. I, 3-Phenylendi [α-Sulfonpropionsäure]. Fl. (J. pr. [2]

C18H22O8N4

 $C_{16}H_{22}O_8S_2$ **68**, 328 *C*, 1903 [2] 1171). $C_{16}H_{28}O_4N_8$

C 49.8 - H 5.7 - O 37.3 - N 7.2 - M. G. 386. $C_{16}H_{22}O_{9}N_{2}$ 1) Nitril d. α-Pentaacetylglykosaminsäure. Sm. 118-119° (B. 35, 4017

C. 1903 [1] 391).

7) Phenylamidoformiat d. 2-Oxy-1-Methyl-3-Isopropyl-R-Penta- $C_{16}H_{28}O_2N$ methylen. Sm. 82° (B. 37, 237 C. 1904 [1] 726).

8) Phenylamidoformiat d. 2-Oxy-1,1,4-Trimethylhexahydrobenzol. Sm. 84-85° (u. 92°) (A. 329, 88 C. 1903 [2] 1071).

9) Phenylamidoformiat d. Dihydropulegenol. Sm. 81-820 (A. 327, 135 *C.* 1903 [1] 1412). C 59,8 — H 7,2 — O 19,9 — N 13,1 — M. G. 321.

1) Semicarbazon d. Santonsäure. Sm. 183-185° (G. 33 [1] 198 C. 1903

[2] 45). 2) Diisoamyläther d. 2,5-Dimerkapto-1,4-Benzochinon. Sm. 170 bis

C₁₆H₂₄O₂S₂ 172° (A. 336, 156 C. 1904 [2] 1300).

4) Di[Diäthylamidoformiat] d. 1,3-Dioxybenzol. Sd. 236—237% (Bl. [3]) $C_{16}H_{24}O_4N_2$ **31**, 691 *C*. **1904** [2] 198).

1) ε-Keto-αγ-Diäthylsulfon-α-Phenylhexan (B. 37, 509 C. 1904 [1] 884). C16H24O5S2 2) N-Anhydrid d. Hepta Amidoacetyl amidoessigsäure (Oktoglycyl) C₁₆H₂₄O₈N₈ (B. 37, 1300 C. 1904 [1] 1337).

*4) norm. Nonylester d. Phenylamidoameisensäure. Sm. 59° (C. r. 138, $C_{16}H_{25}O_2N$ 149 C. 1904 [1] 577).

5) Phenylamidoformiat d. α-Oxynonan. Sm. 59° (Bl. [3] 31, 674 C. 1904 [2] 184).

2) Verbindung (aus Cyancampher u. Epichlorhydrin). Sm. 128—129° (Bl. [3] 31, 371 C. 1904 [1] 1263). $C_{16}H_{25}O_8N$

 Isoamylester d. Chlorcamphocarbonsäure. Sd. 182—183°₁₂ (B. 35, 4117 C. 1903 [1] 82).
 Isoamylester d. o-Bromcamphocarbonsäure. Sd. 193,5—194,5°₁₃ C₁₈H₂₅O₈Cl

 $C_{16}H_{25}O_8Br$ (B. 36, 1723 C. 1903 [2] 37).

C18H25O8J 2) Isoamylester d. o-Jodcamphocarbonsäure. Fl. (B. 36, 1724 C. 1903 [2] 37).

C₁₈H₂₅O₄Cl *1) Aethylester d. α-Chlortetrahydrocarvonylacetessigsäure. Fl. Na (B. 36, 236 C. 1903 [1] 515).

*2) Aethylester d. β-Chlortetrahydrocarvonylacetessigsäure. Sm. 146° (B. 36, 235 C. 1903 [1] 514).

6) Triäthylester d. γ -Cyan- β -Methylpentan- $\beta\gamma s$ -Tricarbonsäure. Sd. 210°_{20} (C. 1903 [1] 923; Soc. 85, 134 C. 1904 [1] 727). $C_{16}H_{25}O_6N$

 $C_{16}H_{25}O_8N_3$

C 59,6 — H 6,5 — O 33,1 — N 10,8 — M. G. 387.

1) Diisoamyläther d. 3,5-Dinitro-2,2-Dioxychinolnitrolsäure? Na (Am. 29, 111 C. 1903 [1] 708).

1) 2,5-Diisoamyläther d. 2,5-Dimerkapto-1,4-Dioxybenzol. Sm. 68

C16H26O2S2 bis 70° (A. 336, 157 C. 1904 [2] 1300).

C₁₆H₂₆O₃S 2) 2-Heptyl-1,3,5-Trimethylbenzol-4-Sulfonsäure. Mg (B. 37, 1721 C. 1904 [1] 1489).

 $C_{16}H_{26}O_9N_8$ C 40,5 — H 5,5 — O 30,4 — N 23,6 — M. G. 474.

1) Hepta[Amidoacetyl]amidoessigsäure. HCl (B. 37, 1300 C. 1904 [1] 1337).

C₁₈H₂₈O₁₁Hg₄ 1) Verbindung (aus Methyläthylketon u. Merkuriacetat). 1/2 Pikrat (B. 36, 3704 C. 1903 [2] 1239).

1) Jodmethylat d. d-2-Propyl-1-Benzylhexahydropyridin (J. d. N-C₁₆H₂₆NJ Benzylconiin). Sm. 187° (B. 37, 3636 C. 1904 [2] 1510).

2) isom. Jodmethylat d. d-2-Propyl-1-Benzylhexahydropyridin. Sm. 215° (B. 37, 3636 C. 1904 [2] 1510).

 $C_{16}H_{27}O_8N_7$

C 43,1 — H 6,1 — O 28,8 — N 22,0 — M. G. 445.

1) Aethylester d. Hexa[Amidoacetyl]amidoesssigsäure. 187—190° (C. 1903 [2] 344).

C 72,7 — H 10,6 — O 6,1 — N 10,6 — M. G. 264.

 $C_{16}H_{28}ON_{2}$

1) Piperidid d. Bornylamidoameisensäure. Sm. 1530 (Soc. 85, 1190) C. 1904 [2] 1125).

1) Diisoamyläther d. 2,5-Dimerkapto-1,4-Diketohexahydrobenzol. $C_{16}H_{28}O_2S_2$ Sm. 150—152° (A. 336, 156 C. 1904 [2] 1300). 3) Bornylester d. Diäthylamidoessigsäure. Sd. 160°₂₀. Citrat (Ar. 240, $C_{16}H_{29}O_2N$

650 C. 1903 [1] 399).

*1) Jodmethylat d. Sparteïn. Sm. bei 240° (234°). HJ (Bl. [3] 29, 1140 C. 1904 [1] 293; Ar. 242, 515 C. 1904 [2] 1412).
2) Jodisoamylat d. s-Isoamylphenylhydrazin (C. r. 137, 330 C. 1903 [2] 716; Bl. [3] 29, 974 C. 1903 [2] 1115). C 53,6 — H 8,4 — O 22,3 — N 15,6 — M. G. 358. $C_{16}H_{29}N_2J$

 $C_{16}H_{80}O_5N_4$

 i-α-[α-Amidoisocapronyl]amidoisocapronylamidoacetylamidoessigsäure (i-Dileucylglycylglycin). Sm. 250° u. Zers. (B. 37, 2506 C. 1904

C16H31O2N

C 71,4 — H 11,5 — O 11,9 — N 5,2 — M. G. 269.

1) Menthylester d. Diäthylamidoessigsäure. Sd. 160—162°20. (Ar. 240, 646 C. 1903 [1] 399).

C₁₆H₈₁O₂Cl 1) β -Chloräthylester d. Myristinsäure. Sm. 34°; Sd. 115° (B. 36, 4341) C. 1**904** [1] 433).

2) β -Bromäthylester d. Myristinsäure. Sm. 48° ; Sd. 134° (B. 36, 4341 C18 H81 O2 Br C. 1904 [1] 433).

C, H, OS 1) Thiolpalmitinsaure. Sm. 71° (C. r. 136, 555 C. 1903 [1] 816).

- 16 IV -

 $C_{16}H_8O_2N_2Cl_2$

3) isom. Dichlorindigo (D.R.P. 139838 C. 1903 [1] 748). 4) isom. Dichlorindigo (B. 37, 1866 C. 1904 [1] 1600). *1) m-Dibromindigo (D.R.P. 149940 C. 1904 [1] 1046). 4) isom. Dibromindigo (B. 37, 1868 C. 1904 [1] 1601). $C_{16}H_8O_2N_2Br_2$

C1AH9ON2Br8 1) 1-[2,4,6-Tribromphenyl]azo-2-Oxynaphtalin. Sm. 169° (B. 36,

 $C_{16}H_9O_2N_2Cl$

2073 C. 1903 [2] 358).
*1) Chlorindigo (D.R.P. 139838 C. 1903 [1] 748).
*2) Bromindigo (D.R.P. 144249 C. 1903 [2] 779; D.R.P. 149899, 149940, 149983 C. 1904 [1] 1046). $C_{16}H_9O_2N_2Br$

1) 2-Oxy-1-[2, 4, 6-Tribromphenylazo]naphtalin. Sm. 173—174° (Soc. 83, 808 C. 1903 [2] 195, 426). $C_{16}H_9O_2N_2Br_8$

1) P-Dichlor-1-[2, 4-Dinitrophenyl]amidonaphtalin. (B. 36, 3270 C. 1903 [2] 1127). $C_{16}H_9O_4N_3Cl_2$ Sm. 179°

2) 2-Oxy-1-[2,4-Dichlorphenylazo]naphtalin. Sm. 190° (Soc. 83, C₁₆H₁₀ON₂Cl₂ 813 C. 1903 [2] 426).

Sm. 208-209° (B. 35, 4332 C₁₆H₁₀ON₈Cl 2) Acetyl- α -Chlorindophenazin. C. 1903 [1] 292).
 2-Oxy-1-[4, 6-Dibrom-2-Oxyphenylazo]naphtalin. Sm. 214—215°

 $\mathbf{C}_{16}\mathbf{H}_{10}\mathbf{O}_{2}\mathbf{N}_{2}\mathbf{Br}_{2}$ (Soc. 83, 804 C. 1903 [2] 195, 425).

 2-Thiocarbonyl-4-Keto-3-Phenyl-5-[2-Nitrobenzyliden] tetra-hydrothiazol. Sm. 238° (M. 24, 512 C. 1903 [2] 837). $C_{16}H_{10}O_8N_2S_2$

2) 2-Thiocarbonyl-4-Keto-3-Phenyl-5-[3-Nitrobenzyliden]tetra-hydrothiazol. Sm. 240° (M. 25, 160 C. 1904 [1] 894).

3) 2-Thiocarbonyl-4-Keto-3-Phenyl-5-[4-Nitrobenzyliden]tetra-hydrothiazol. Sm. 240° (M. 25, 162 C. 1904 [1] 894).

 $C_{16}H_{10}O_4N_3Cl$ 1) P-Chlor-2-[2,4-Dinitrophenyl]amidonaphtalin. Sm. 206 (B. 36, 3270 C. 1903 [2] 1127).

*1) Indigo-3, 3'-Disulfonsäure (M. 24, 14 C. 1903 [1] 776).

4) isom. Indigodisulfonsäure (D.R.P. 143141 C. 1903 [2] 272).

C16H10O8N2S2

 P-Dinitro-2,6-Dioxy-9,10-Anthrachinon-2,6-Dimethyläther-P-Sulfonsäure (D.R.P. 143858 C. 1903 [2] 404).
 P-Dinitro-2,7-Dioxy-9,10-Anthrachinon-2,7-Dimethyläther- $C_{16}H_{10}O_{11}N_2S$

P-Sulfonsäure (D.R.P. 143858 C. 1903 [2] 404).

1) P-Dinitro-1, 3, 5, 7-Tetraoxy-9, 10-Anthrachinondimethyläther- $C_{16}H_{10}O_{16}N_2S_2$ P-Disulfonsäure (D. R. P. 139425 C. 1903 [1] 746).
 2-Thiocarbonyl-4-Keto-3-Phenyl-4-Benzylidentetrahydrothiazol. Sm. 186° (M. 24, 505 C. 1903 [2] 836).

C18H11ONS

 2-Thiocarbonyl-4-Keto-5-[2-Oxybenzyliden]-3-Phenyltetra-hydrothiazol. Sm. 172° (M. 25, 165 C. 1904 [1] 894). $C_{16}H_{11}O_2NS_2$

4) 2-Oxy-1-[4-Chlor-2-Oxyphenylazo]naphtalin. Sm. 265 (Soc. 83, $C_{16}H_{11}O_2N_2Cl$

813 C. 1903 [2] 426).

1) 4-Brom-2-[2-Nitrophenyl]azo-1-Amidonaphtalin. Sm. 219—220° (Soc. 85, 752 C. 1904 [2] 448). $\mathbf{C_{18}H_{11}O_{2}N_{4}Br}$ 2) 4-Brom-2-[3-Nitrophenyl]azo-1-Amidonaphtalin. Sm. 246°

(Soc. 85, 752 C. 1904 [2] 448).

$\mathbf{C}_{16}\mathbf{H}_{11}\mathbf{O}_{2}\mathbf{N}_{4}\mathbf{Br}$	3) 4-Brom-2-[4-Nitrophenyl]azo-1-Amidonaphtalin. Sm. 201—202° (Soc. 85, 751 C. 1904 [2] 448).
$\mathbf{C_{16}H_{11}O_8NCl_2}$	2) P-Dichlordimethylamidooxy-9,10-Anthrachinon. Sm. 185 ° (Bl. [3] 29, 62 C. 1903 [1] 456).
$\mathbf{C_{16}H_{11}O_{8}N_{3}S}$	2) 2-Phenylimido-4-Keto-5-[3-Nitrobenzyliden]tetrahydrothiazol. Sm. noch nicht bei 290° (C. 1903 [1] 1258).
$\mathbf{C_{16}H_{11}O_4N_2Br}$	1) P-Brom-8-Nitro-1-Dimethylamido-9,10-Anthrachinon. Sm. 198° (D.R.P. 146691 C. 1903 [2] 1352).
$\mathbf{C_{16}H_{11}O_4N_4Cl}$	1) 1-Amido-2-[5-Chlor-2,4-Dinitrophenyl]amidonaphtalin. Sm. 232° (B. 37, 3888 C. 1904 [2] 1654).
$C_{16}H_{11}O_{18}N_7S$	2) O-Isopropyläther-S-2,4,6-Trinitrophenyläther d. 2,4,6-Trinitrophenylimidomerkaptooxymethan. Sm. 147° (Soc. 85, 648 C. 1904 [2] 310).
$\mathbf{C_{18}H_{11}ClBrJ}$	1) 3-Bromphenyl-1-Naphtyljodoniumchlorid. Sm. 159°. + HgCl ₂ , 2 + PtCl ₄ (J. pr. [2] 69, 332 C. 1904 [2] 36).
$C_{16}H_{12}ONCl$	*2) Methyläther d. 4-Chlor-1-Oxy-3-Phenylisochinolin. Sm. 76° (B. 37, 1686 C. 1904 [1] 1523).
•	6) Methyläther d. 1-Chlor-4-Oxy-3-Phenylisochinolin. Sm. 103,5° (B. 37, 1690 C. 1904 [1] 1524).
	 Nitril d. β-Keto-γ-[4-Chlorphenyl]-α-Phenylpropan-γ-Carbon-säure. Sm. 127° (J. pr. [2] 67, 390 C. 1903 [1] 1357).
$C_{16}H_{12}ON_2S$	*1) 2-Phenylimido-4-Keto-5-Benzylidentetrahydrothiazol. Sm. 251 bis 252°. Ag, + C ₂ H ₆ ONa (C. 1903 [1] 1257).
$\mathbf{C_{16}H_{12}OBrJ}$	1) 3-Bromphenyl-1-Naphtyljodoniumhydroxyd. Salze siehe (<i>J. pr.</i> [2] 69, 332 <i>C</i> 1904 [2] 36).
$C_{16}H_{12}O_3NCl$	*3) 4-Chlor-1-Dimethylamido-9,10-Anthrachinon. Sm. 172 ° (D.R.P. 146691 C. 1903 [2] 1353).
$\mathrm{C_{16}H_{12}O_{2}NBr}$	1) 4-Brom-1-Dimethylamido-9,10-Anthrachinon. Sm. 178° (D.R.P. 146691 C. 1903 [2] 1352).
$\mathbf{C_{16}H_{12}O_4N_2S}$	14) 2-Benzoyl-5-Phenylimidazol-1-Sulfonsäure + 4H ₂ O. Sm. 274° wasserfrei. NH ₄ + 2H ₂ O, PbOH, Ag (B. 35, 4133 C. 1903 [1] 295) *III, 93.
$\mathbf{C_{16}H_{12}O_{5}N_{4}S}$	3) 1-Phenylazo-2-Phenylimidazol-4[oder 5]-Carbonsäure-1*-Sulfonsäure. Zers. oberh. 200° (B. 37, 703 C. 1904 [1] 1562).
$C_{16}H_{12}O_7N_4S_2$	1) 2-[4-Amidophenyl]-8-Oxynaphtriazol-3,6-Disulfonsäure (D.R.P. 146375 C. 1903 [2] 1402).
$C_{16}H_{12}N_4Br_2J_2 C_{16}H_{18}ON_2Cl$	 Hexamethylenamindibromojodid (C. r. 136, 1472 C. 1903 [2] 297). 4-Chlor-1-[α-Phenylhydrazonäthyl] benzfuran. Sm. 90—92° (A. 312, 334). — *III, 530.
	3) Nitril d. β -Oximido- γ -Phenyl- α -[4-Chlorphenyl]buttersäure. Sm. 125° (J. pr. [2] 67, 391 C. 1903 [1] 1357).
$\mathrm{C_{16}H_{18}ON_8S_2}$	1) Phenylbenzylamid d. Isorhodanformylamidothioameisensäure. Sm. 180° (Soc. 83, 95 C. 1903 [1] 230, 447).
$\mathbf{C}_{16}\mathbf{H}_{18}\mathbf{ON}_4\mathbf{Cl}$	1) 5-Keto-4-[4-Chlorphenyl]azo-3-Methyl-1-Phenyl-4, 5-Dihydropyrazol. Sm. 141—142° (Soc. 83, 1125 C. 1903 [2] 24, 791).
$\mathrm{C_{16}H_{18}ON_4Br}$	1) 5-Keto-4-[4-Bromphenyl]azo-3-Methyl-1-Phenyl-4,5-Dihydropyrazol. Sm. 152—153° (Soc. 83, 1124 C. 1903 [2] 24, 791).
$\mathbf{C_{16}H_{18}O_{2}NCl_{2}}$	1) 3-Chlor-4-Propionylchloramidodiphenylketon. Sm. 114° (Soc. 85, 343 C. 1904 [1] 1405).
$\mathbf{C}_{16}\mathbf{H}_{18}\mathbf{O}_{8}\mathbf{NS}$	*8) 2-Phenylamidonaphtalin-6-Sulfonsäure. Na (C. 1904 [1] 1013), 10) 2-Phenylamidonaphtalin-8-Sulfonsäure. Na (C. 1904 [1] 1013).
$\mathbf{C_{16}H_{18}O_4NCl_2}$	1) Dichlordimethylamidooxydiphenylketon - 2 - Carbonsäure (aus 3-Dimethylamido-1-Oxybenzol u. ?-Dichlorbenzol-1,2-Dicarbonsäure-
$\mathbf{C_{16}H_{13}O_4NBr_2}$	anhydrid). Sm. 191° (Bl. [3] 29, 60 C. 1903 [1] 456). 1) N-Acetyl-2-[3,5-Dibrom-2-Oxybenzyl] amidobenzol-1-Carbon-säure. Sm. 201—202° (A. 332, 193 C. 1904 [2] 210).
C ₁₆ H ₁₆ O ₄ NS	 2) N-Acetyl-3-[3,5-Dibrom-2-Oxybenzyl]amidobenzol-1-Carbonsäure. Sm. 211—213° (A. 332, 195 C. 1904 [2] 210). 3) N-Acetyl-4-[3,5-Dibrom-2-Oxybenzyl]amidobenzol-1-Carbonsäure. Sm. 221—222° (A. 332, 198 C. 1904 [2] 210). *1) 6-Phenylamido-1-Oxynaphtalin-3-Sulfonsäure (C. 1904 [1] 1013). *2) 7-Phenylamido-1-Oxynaphtalin-3-Sulfonsäure (C. 1904 [1] 1013).
	3) 6 - Methylphenylsulfonamido - 1, 2 - Benzpyron. Sm. 165-167° (Soc. 85, 1238 C. 1904 [2] 1124).

4) 2-[4-Oxyphenyl]amidonaphtalin-6-Sulfonsäure (C. 1904 [1] 1013).
5) 2-[4-Oxyphenyl]amidonaphtalin-8-Sulfonsäure (C. 1904 [1] 1013). C, H, O, NS C18H13O4N9Cl *3) $\beta\beta\beta$ -Trichlor- $\alpha\alpha$ -Di [Phenylamido] äthan - 2, 2'-Dicarbonsäure. Sin. 165° (B. 35, 3898 C. 1903 [1] 29). *1) 7-[4-Oxyphenyl] amido - 1 - Oxynaphtalin - 3-Sulfonsäure. Na $C_{16}H_{13}O_5NS$ (*C.* **1904** [1] 1013). 4) P-Aethylamido-9,10-Anthrachinon-1-Sulfonsäure (D.R.P. 144634 C. 1903 [2] 750). $C_{16}H_{18}O_6NS$ 2) 4-Aethylamido-1-Oxy-9,10-Anthrachinon-7-Sulfonsäure (D.R.P. 155 440 C. 1904 [2] 1356). C16H18O6NS2 1) 2-Phenylamidonaphtalin-23,6-Disulfonsäure. Na (C. 1904 [1] 1013). 2) 2-Phenylamidonaphtalin-24,6-Disulfonsäure. Na (C. 1904 [1] C18H14ON,Se 1) Phenylbenzylamid d. Selencyanessigsäure. Sm. 70° (Ar. 241, 218 C. 1903 [2] 104). C16H14O2NC1 5) 3-Chlor-4-Propionylamidodiphenylketon. Sm: 107.5° (Soc. 85. 343 C. 1904 [1] 1405). 6) 2-Propionylchloramidodiphenylketon. Sm. 1070 (C. 1903 [1] 1137). 7) 4-Propionylchloramidodiphenylketon. Sm. 129° (C. 1903 [1] 1137). 8) Aethyl-4-Benzoylchloramidophenylketon. Sm. 70° (C. 1903) [1] 1223). 9) 4-Acetylchloramido-3-Methyldiphenylketon. Sm. 110° (Soc. 85, 593 C. 1904 [1] 1554). 10) 6-Acetylchloramido-3-Methyldiphenylketon. Sm. 116° (Soc. 85, 595 C. 1904 [1] 1554). 11) Gem. Imid d. Phenylessigsäure d. 4-Chlorphenylessigsäure. Sm. 172° (J. pr. [2] 69, 16 \overline{C} . 1904 [1] 640). $C_{16}H_{14}O_2NBr$ 1) 2-Propionylbromamidodiphenylketon. Sm. 90 ° (C. 1903 [1] 1137). 2) 4-Propionylbromamidodiphenylketon. Sm. 123° (C. 1903 [1] 1137). 3) Aethyl-4-Benzoylbromamidophenylketon. Sm. 1110 (C. 1903) [1] 1223). 4) s-Di[4-Brom-2-Methylphenylamid] d. Oxalsäure. Sm. 254—2556 C₁₆H₁₄O₂N₂Br₂ (M. 25, 378 C. 1904 [2] 320). 1) γ -Chlor- γ -Brom- α δ -Dioxy- α δ -Diphenyl- α -Buten. Sm. 155° (B. 36, 2401 C. 1903 [2] 499). C₁₆H₁₄O₂ClBr isom. γ-Chlor-γ-Brom-αδ-Dioxy-αδ-Diphenyl-α-Buten. Sm. 160°
 (B. 36, 2402 C. 1903 [2] 499). 1) γ -Chlor- γ -Jod- $\alpha\delta$ -Dioxy- $\alpha\delta$ -Diphenyl- α -Buten. Sm. 133—134° u. Zers. (B. 36, 2414 C. 1903 [2] 500). C16H14O2ClJ *1) Diäthyläther d. 3,5,3',5'-Tetrabrom-4,4'-Dioxyazoxybenzol. Sm. 163° (Am. 30, 65 C. 1903 [2] 355). $C_{16}H_{14}O_8N_2Br_4$ *7) 2-[4-Amidophenyl]amidonaphtalin-6-Sulfonsäure. Na (C. 1904 $C_{16}H_{14}O_8N_2S$ [1] 1013). *2) Methyläther d. 10-Brom-10-Nitro-9,9-Dioxy-9,10-Dihydro-C16H14O4NBr anthracen. Sm. 139° (A. 330, 169 C. 1904 [1] 891). 1) N-Acetyl-4-Nitro-2-Methylphenyl-3,5-Dibrom-2-Oxybenzyl-C₁₆H₁₄O₄N₂Br₂ amin. Sm. 161-162° (A. 332, 191 C. 1904 [2] 210). 2) N-Acetyl-3-Nitro-4-Methylphenyl-3,5-Dibrom-2-Oxybenzylamin. Sm. 179—180,5° (A. 332, 192 C. 1904 [2] 210). 2) 6-[3-Amidophenylsulfon]amido-1-Oxynaphtalin-3-Sulfonsäure C16H14O6N2S2 (D.R.P. 151017 C. 1904 [1] 382). 3) 6-[3-Amidophenylsulfon]amido-2-Oxynaphtalin-4-Sulfonsäure (D.R.P. 151017 C. 1904 [1] 1382). C18H14O8N2S2 2) 1,5-Di[Sulfomethylamido]-9,10-Anthrachinon (D.R.P. 112115 C. 1900 [2] 651). — *III, 297. 1) P-Diamido -1, 3, 5, 7-Tetraoxy-9, 10-Anthrachinondimethyläther- $C_{16}H_{14}O_{12}N_2S_2$ P-Disulfonsäure (D.R.P. 146265 C. 1903 [2] 1227).

2) 1-[3,5-Dibrom-2-Oxybenzyl]-1,2,3,4-Tetrahydrochinolin. Sm. 113—114° (A. 332, 224 C. 1904 [2] 203). C16H15ONBr *1) 1,2-Diphenyl-3-Aethylimidoxanthid. Sm. 97° (U. 1904 [1] 1003). C16 H15 ONS2 $\mathbf{C}_{16}\mathbf{H}_{15}\mathbf{O}_{2}\mathbf{NBr}_{2}$ N-Acetyl-2-Methylphenyl-3, 5-Dibrom-2-Oxybenzylamin. Sm.

115° (A. 332, 186 C. 1904 [2] 210).

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$\mathbf{C_{16}H_{15}O_{2}NBr_{2}}$	5) Acetat d. Methylphenyl-3, 5-Dibrom-2-Oxybenzylamin. Sm. 91° (A. 332, 225 C. 1904 [2] 203).
$\mathbf{C}_{16}\mathbf{H}_{15}\mathbf{O}_{2}\mathbf{N}_{2}\mathbf{Cl}$	4) Aethyläther d. Benzoylimido-3-Chlorphenylamidooxymethan. Sm. 47—48° (Am. 32, 366 C. 1904 [2] 1507).
$\mathbf{C_{16}H_{15}O_{2}N_{2}Br}$	2) s-2-Methylphenylamid-4-Brom-2-Methylphenylamid d. Oxalsäure. Sm. 186 (M. 25, 380 C. 1904 [2] 320).
$\mathbf{C_{16}H_{15}O_{2}N_{4}Br}$	1) 8-Brom - 5-[2-Nitrophenylazo] amido - 1, 2, 3, 4-Tetrahydro- naphtalin. Zers. 170-175° (Soc. 85, 749 C. 1904 [2] 448).
	2) 8 - Brom - 5 - [3 - Nitrophenylazo] amido - 1, 2, 3, 4 - Tetrahydronaphtalin. Zers. bci 165—166° (Soc. 85, 749 C. 1904 [2] 448).
	3) 8 - Brom - 5 - [4 - Nitrophenylazo] amido - 1, 2, 3, 4 - Tetrahydronaphtalin. Zers. bei 178° (Soc. 85, 749 C. 1904 [2] 448).
$\mathbf{C_{16}H_{15}O_{8}NCl_{2}}$	1) ? - Dichlordimethylamidooxydiphenylmethan - 2 - Carbonsäure. Sm. 195° (Bl. [3] 29, 62 C. 1903 [1] 456).
$C_{16}H_{15}O_8NBr_2$	4) N-Acetyl-2-Methoxylphenyl-3,5-Dibrom-2-Oxybenzylamin, Sm. 102-103° (A. 332, 192 C. 1904 [2] 210).
	5) N-Acetyl-4-Methoxylphenyl-3,5-Dibrom-2-Oxybenzylamin. Sm. 114-115° (A. 332, 193 C. 1904 [2] 210).
$\mathbf{C}_{16}\mathbf{H}_{15}\mathbf{O}_{4}\mathbf{N}_{2}\mathbf{J}$	1) Diacetat d. 4-Jodosoazobenzol. Sm. 164° (B. 37, 1312 C. 1904 [1] 1341).
$\mathbf{C_{16}H_{15}N_{2}BrS_{2}}$	1) Aethyläther d. 2-Brom-5-Merkapto-2,3-Diphenyl-2,3-Dihydro-1,3,4-Thiodiazol. Sm. 185-187° u. Zers. + J ₂ (J. pr. [2] 67, 289 C. 1903 [1] 1263).
$\mathbf{C_{16}H_{15}N_{2}JS_{2}}$	1) Methyläther d. 2-Jod-5-Merkapto-2-Phenyl-3-[4-Methylphenyl-2,3-Dihydro-1,3,4-Thiodiazol. Sm. 188° (J. pr. [2] 67, 259
	 C. 1903 [1] 1265). Aethyläther d. 2-Jod-5-Merkapto-1, 2-Diphenyl-1, 2-Dihydro-1, 3, 4-Triazol. Sm. 193—194° u. Zers. + J₂ (J. pr. [2] 67, 241 C. 1903 [1] 1263).
$\mathbf{C_{16}H_{16}ONCl}$	 2. Benzoylamido-1-[γ-Chlorpropyl]benzol. Sm. 108° (B. 37, 2921 C. 1904 [2] 1238).
$\mathbf{C_{16}H_{16}ONBr_{8}}$	2) α -[4-Dimethylamidophenyl]- α -[2,3,5-Tribrom-4-Oxyphenyl]-äthan. Sm. 108°. HBr, HJ (A. 334, 333 C. 1904 [2] 989).
$\mathbf{C_{16}H_{16}ON_{2}Br_{2}}$	1) Phenylamid d. P-Dibrom-P-Phenylamidoisobuttersäure. Sm. 152° (B. 36, 1271 C. 1903 [1] 1219).
$C_{16}H_{16}ON_2S$	12) Methyläther d. α -Benzoylimido - α -Methylphenylamido - α -Merkaptomethan. Sm. 113° (Am . 29, 81 C. 1903 [1] 523).
	13) 6-Aethyläther d. 2-Merkapto-6-Oxy-4-Methyl-1-Phenylbenz- imidazol. Sm. 244—245° (B. 36, 3853 C. 1904 [1] 90).
	14) 6-Aethyläther d. 2-Merkapto-6-Oxy-1-[4-Methylphenyl]benzimidazol. Sm. 205-206° (B. 36, 3851 O. 1904 [1] 89).
$C_{16}H_{16}ON_2S_2$	*3) Monoäthyläther d. α-Dimerkaptomethylen-β-Benzoyl-β-Phenyl- hydrazin. Sm. 164—165° (J. pr. [2] 67, 242 C. 1903 [1] 1263).
	5) Dimethyläther d. 5-Merkapto-2-Oxy-2, 3-Diphenyl 2, 3-Dihydro-1, 3, 4-Thiodiazol. Sm. 82° (J. pr. [2] 67, 225 C. 1903 [1] 1261).
•	6) Methylester d. Benzoyl-4-Methylphenylamidodithioameisensäure. Sm. 160° (J. pr. [2] 67, 259 C. 1903 [1] 1266).
$\mathbf{C_{16}H_{16}O_{2}N_{2}S}$	*6) Aethylester d. Diphenylthicallophansäure. Sm. 95° (Soc. 83, 557 C. 1903 [1] 1123).
$\mathbf{C}_{16}\mathbf{H}_{16}\mathbf{O}_{2}\mathbf{N}_{2}\mathbf{S}_{3}$	2) Amid d. Dibenzyltrisulfid- $\alpha\alpha'$ -Dicarbonsäure + H ₂ O. Sm. 217° (C. 1903 [2] 1272).
$\mathbf{C_{16}H_{16}O_{2}N_{2}Se}$	1) Phenylbenzylamid d. Carbaminselenessigsäure. Sm. 140-1419 u. Zers. (Ar. 241, 219 C. 1903 [2] 104).
$\mathbf{C_{16}H_{16}O_{2}N_{2}Se_{2}}$	1) Di[Phenylamid] d. Dimethyldiselenid-αα'-Dicarbonsäure (1);
$\mathbf{C_{16}H_{16}O_4N_4Br_2}$	selenglykolsäureanilid). Sm. 158° (Ar. 241, 201 C. 1903 [2] 103). 1) Dibromricinin (C ₁₈ H ₁₄ O ₄ N ₄ Br ₂). Sm. 247° (C. 1895 [1] 853)*III, 690.
$C_{16}H_{16}O_5N_4S$	1) 5-[4-Nitrophenylazo] amido-1,2,3,4-Tetrahydronaphtalin-8-Sulfonsäure (Soc. 85, 758 C. 1904 [2] 449).
$\mathbf{C}_{16}\mathbf{H}_{16}\mathbf{O}_{8}\mathbf{N}_{2}\mathbf{S}_{2}$	1) 4,4'-Di[Acetylamido] biphenyl-2,2'-Disulfonsäure. Na ₂ (J. pr. [2] 66, 572 C. 1903 [1] 520).
$C_{16}H_{16}N_8JS$	1) Methyläther d. 5-Jod-8-Merkapto-5-Methyl-1,4-Diphenyl-4,5-Dihydro-1,2,4-Triazol. Sm. 250° (J. pr. [2] 67, 255 C. 1903 [1] 1265).

$\mathbf{C_{16}H_{17}ONBr_{2}}$	2) Methyläther d. Phenyl-3, 6-Dibrom-4-Oxy-2, 5-Dimethylbenzyl-
$C_{16}H_{17}ONS$	amin. Sm. 115—116° (A. 334, 303 C. 1904 [2] 985). 8) 4-Acetylamido-3, 4'-Dimethyldiphenylsulfid. Sm. 135—136°
$\mathbf{C_{16}H_{17}ON_3S_2}$	(J. pr. [2] 68, 282 C. 1903 [2] 994). 1) Dimethyläther d. α -Dimerkaptomethylenamido- $\alpha\beta$ -Diphenyl-
	harnstoff. Sm. 105° (B. 36, 1365 C. 1903 [1] 1341). 2) Methylester d. α -Phenylamidoformyl- α -[2-Methylphenyl]-
	hydrazin-β-Dithiocarbonsäure. Sm. 152° (B. 36, 1370 C. 1903 [1] 1342; B. 36, 1372 C. 1903 [1] 1343).
$C_{16}H_{17}O_2NS$	3) Aethylester d. 4-Merkaptophenylamidoameisen-4-Methylphenyläthersäure (p-Thiotolylphenylurethan). Sm. 94° (J. pr. [2] 68,
	 269 C. 1903 [2] 993. 4) Phenylamid d. 1,2,3,4-Tetrahydronaphtalin - 5 - Sulfonsäure.
	Sm. 144—145° (Soc. 85, 757 C. 1904 [2] 449).
$C_{16}H_{17}O_8N_8S$	*1) 5-Amido-8-Phenylazó-1,2,3,4-Tetrahydronaphtalin-8 ⁴ -Sulfonsäure (Soc. 85, 754 C. 1904 [2] 448).
$C_{16}\mathbf{H}_{17}O_{3}\mathbf{N}_{5}\mathbf{S}$	1) Dimethyläther d. Nitrosodi [2-Oxyphenyl thiodicyandiamin. Sm. 171—172° (B. 36, 3324 C. 1903 [2] 1169).
$C_{16}H_{17}O_4NS$	2) Methylester d. 2-[Methyl-4-Methylphenylsulfon]amidobenzol-1-Carbonsäure. Sm. 94° (B. 35, 4274 C. 1903 [1] 332).
$\mathbf{C_{16}H_{18}ON_{2}S}$	3) Aethyläther d. 4'-Oxy-4-Methyl-s-Diphenylthioharnstoff. Sm. 134—135° (B. 36, 3851 C. 1904 [1] 90).
$\mathbf{C_{16}H_{18}O_{2}NBr_{8}}$	1) Methylhydroxyd d. 2,3,5-Tribrom-4'-Dimethylamido-4-Oxy-
$\mathbf{C_{16}H_{18}O_{2}N_{4}S}$	diphenylmethan. Sm. 210-212° (A. 334, 332 C. 1904 [2] 988). 4) Dimethyläther d. Di[2-Oxyphenyl]thiodicyandiamin. Sm.
$C_{16}H_{18}O_5N_2S$	80—82°. HCl, HNO ₂ , Pikrat (B. 36, 3323 C. 1903 [2] 1169). 1) Aethylester d. 2-Naphtylsulfonamidoacetylamidoessigsäure
	(β-Naphtalinsulfoglycylglycinäthylester). Sm. 119—120° (B. 36, 2105 C. 1903 [1] 1304).
$\mathbf{C_{16}H_{18}O_{6}N_{2}S_{2}}$	*1) 2, 4, 2', 4'-Tetramethylazobenzol-5, 5'-Disulfonsäure $+$ 5H ₂ O. Na ₂ $+$ H ₂ O, Ca $+$ H ₂ O, CaH $+$ 1'/ ₂ H ₂ O, Ba, BaH $+$ H ₂ O (4. 330, 46
	C. 1904 [1] 1141).
$\mathbf{C}_{16}\mathbf{H}_{18}\mathbf{N}_{4}\mathbf{ClBr}$	1) Brommethylat d. Verb. $C_{15}H_{15}N_4Cl$. HBr + H_2O (B. 37, 558 C. 1904 [1] 893).
$\mathrm{C_{16}H_{19}ON_4Cl}$	1) Base (aus 4-Chlor-1,2-Di[Methylamido]benzol). Chlorid, Bromid, Pikrat (B. 37, 557 C. 1904 [1] 893).
$\mathbf{C_{18}H_{19}O_5NS}$	1) 4-Amidobenzol-1-Carbonsaureathylester + 1-Methylbenzol-4-Sulfonsaure. Sm. 185—187° (D.R.P. 150070 C. 1904 [1] 975).
$\mathrm{C_{16}H_{19}O_{6}NS}$	1) 1-Oxybenzolmethyläther-4-sulfonsäure + 4-Amidobenzol- 1-Carbonsäureäthylester. Sm. 188° (D.R. P. 149345 C. 1904 [1] S46).
$C_{16}H_{19}O_7NS$	1) 1, 2-Dioxybenzol-1-Methyläther-3-Sulfonsäure + 4-Amido-
	benzol-1-Carbonsäureäthylester. Sm. 175° (D.R.P. 149345 C. 1904 [1] 846).
$C_{16}H_{20}ONP$	1) Diäthylamid d. Diphenylphosphinsäure. Sm. 138° (A. 326, 183 C. 1903 [1] 819).
$\mathbf{C_{18}H_{20}O_{8}NP}$	2) Diäthylmonamid d. Phosphorsäurediphenylester. Fl. (A. 326, 183 C. 1903 [1] 819).
$\mathrm{C}_{16}\mathbf{H}_{20}\mathrm{O}_{8}\mathbf{N}_{2}\mathbf{S}$	1) 4-Amido-4'-Sulfomethylamido-2,2'-Dimethyldiphenylmethan. Sm. 178—180° (D.R.P. 148760 C. 1904 [1] 555).
	2) 4-Amido-4'-Sulfomethylamido-3,3'-Dimethyldiphenylmethan.
	Sm. 172° (D.R.P. 148760 C. 1904 [1] 555). 3) 6-Amido-6'-Sulfomethylamido-3, 3'-Dimethyldiphenylmethan.
	Sm. 159—160° (D.R.P. 148760 C. 1904 [1] 555). 4) 4, 4'-Di[Dimethylamido] biphenyl-3-Sulfonsäure. Sm. 261,5°
	u. Zers. (B. 37, 3770 C. 1904 [2] 1547). 1) 2'-Amido-2, 4, 3', 5'-Tetramethyldiphenylamin - 5, 6'- Disulfon-
$\mathbf{C_{16}H_{20}O_6N_2S_2}$	säure $+ H_00$ (A. 330, 58 C. 1904 [1] 1142).
$C_{16}H_{20}O_7N_2S$ $C_{16}H_{21}ON_2Cl$	1) 2-Naphtylsulfonhydrazon d. d-Glykose (C. 1904 [2] 1494). 1) Verbindung + 2H,O (aus 4,4'-Tetramethyldiamidobiphenyl) (B. 37,
$C_{16}H_{21}ON_2J$	3766 C. 1904 [2] 1546). *1) Jodäthylat d. 4-Dimethylamido-4'-Oxydiphenylamin. Sm. 207
	(J. pr. [2] 69, 166 C. 1904 [1] 1268). 2) Jodäthylat d. 4-Dimethylamido-3'-Oxydiphenylamin. Sm. 180°
	(J. pr. [2] 69, 237 C. 1904 [1] 1269).

TO TA A.	000
$C_{16}H_{21}ON_2J_3$	1) Verbindung (aus d. Verb. $C_{16}H_{20}N_2J_4$) (B. 37, 3770 C. 1904 [2] 1547).
$\mathbf{C}_{16}\mathbf{H}_{21}\mathbf{O}_{2}\mathbf{N}_{2}\mathbf{P}$	 Di[2-Methylpheⁿylamid] d. Phosphorsäuremonoäthylester. Sm. 115° (A. 326, 250 C. 1903 [1] 868).
$\mathbf{C_{16}H_{21}O_{8}NS}$	2) Phenylsulfon-α-Anhydropulegonhydroxylamin. Sm. 120° (B. 37, 954 C. 1904 [1] 1087).
$\mathbf{C_{16}H_{21}O_{8}N_{3}S}$	 Methylester d. 2-Thiocarbonyl-4-Keto-5-Dimethyl-3-Phenyl-tetrahydroimidazol-1-α-Amidoisobuttersäure. Sm. 142° u. Zers. (C. 1904 [2] 1028).
$\mathrm{C_{16}H_{22}ON_{3}P}$	 Diäthylmonamid-Di[Phenylamid] d. Phosphorsäure. Sm. 150° (A. 326, 184 C. 1903 [1] 820). Isobutylamid-Di[Phenylamid] d. Phosphorsäure. Sm. 207° (A. 326, 174 C. 1903 [1] 819).
$\mathbf{C}_{16}\mathbf{H}_{22}\mathbf{N}_{3}\mathbf{SP}$	 Aethylmonamid-Di[4-Methylphenylamid] d. Thiophosphorsäure. Sm. 140° (A. 326, 203 C. 1903 [1] 821). Diäthylmonamid-Di[Phenylamid] d. Thiophosphorsäure. Sm. 192° (A. 326, 212 C. 1903 [1] 822). Isobutylmonamid - Di[Phenylamid] d. Thiophosphorsäure. Sm. 118° (A. 326, 204 C. 1903 [1] 821).
$C_{16}H_{24}ONCl$	 Nitrosochlorid d. α-[2,4,6-Trimethylphenyl]-α-Hepten. Sm. 160° u. Zers. (B. 37, 931 C. 1904 [1] 1209).
C ₁₆ H ₂₄ ON ₅ P	 Diäthylmonamid-Di[Phenylhydrazid] d. Phosphorsäure. Sm. 184—185° (A. 326, 184 C. 1903 [1] 820). Isobutylamid-Di[Phenylhydrazid] d. Phosphorsäure. Sm. 141° (A. 326, 174 C. 1903 [1] 819).
$\mathrm{C_{16}H_{24}N_{5}SP}$	 Diäthylmonamid - Di [Phenylhydrazid] d. Thiophosphorsäure (A. 326, 212 C. 1903 [1] 822). Isobutylmonamid - Di [Phenylhydrazid] d. Thiophosphorsäure. Sm. 129 (A. 326, 205 C. 1903 [1] 821).
$\mathbf{C_{16}H_{25}O_{2}N_{2}P}$	1) 1, 1'-Dipiperidid d. Phosphorsäuremonophenylester. Sd. 215 bis 216 10 (A. 326, 197 C. 1903 [1] 821). — *IV, 10.
$\mathbf{C_{16}H_{26}ON_{8}P}$	1) Phenylamid-1, I'-Dipiperidid d. Phosphorsäure. Sm. 159° (A. 326, 197 C. 1903 [1] 821). — *IV, 10.
$\mathbf{C}_{16}\mathbf{H}_{26}\mathbf{N}_{3}\mathbf{SP}$	1) Phenylmonamid-1,1'-Dipiperidid d.Thiophosphorsäure. Sm. 112° (A. 326, 217 C. 1903 [1] 822). — *IV, 10.
$\mathbf{C}_{16}\mathbf{H}_{27}\mathbf{ON}_{2}\mathbf{Cl}$	*1) Chlormethylat d. d-Lupanin. (HCl, PtCl ₄), + AuCl ₃ (Ar. 242, 435 C. 1904 [2] 783).
$\mathbf{C}_{16}\mathbf{H}_{27}\mathbf{ON}_{2}\mathbf{J}$	*1) Jodmethylat d. d-Lupanin. Sm. 238,5—240° (Ar. 242, 435 C. 1904 [2] 783).
$C_{16}H_{27}ON_4P$	1) Phenylhydrazid-1,1'-Dipiperidid d. Phosphorsäure. Sm. 155° (A. 326, 197 C. 1903 [1] 821).
$\mathbf{C}_{18}\mathbf{H}_{27}\mathbf{O}_{2}\mathbf{N}_{2}\mathbf{C}\mathbf{I}$	1) Chlormethylat d. Oxylupanin. $+$ (HCl, PtCl ₄ $+$ 3 H ₂ 0), $+$ AuCl ₃ (42, 242, 420, 61, 1904, [21, 782)

(Ar. 242, 429 C. 1904 [2] 782). 1) Jodmethylat d. Oxylupanin. Sm. 228,5—230,5° (Ar. 242, 429

 $C_{16}H_{27}O_{2}N_{2}J$ C. 1904 [2] 782).

 $\mathbf{C_{16}H_{28}O_5N_8Br}$ 1) α -[α -Bromisocapronyl]amidoisocapronylamidoacetylamidoessigsäure (α -Bromisocapronylleucylglycylglycin). Sm. 161—162° (B. 37, 2505 C. 1904 [2] 426).

- 16 V -

$\mathrm{C_{16}H_{11}O_4N_3Cl_2S}$	1) 8-Amido-7-[2,4-Dichlorphenyl]azo-1-Oxynaphtalin-4-Sul-
$\mathbf{C_{16}H_{11}O_6N_3ClS}$	fonsäure (C. 1903 [1] 676). 1) 1-[4-Chlor-3-Nitrophenyl]azo-2-Oxynaphtalin-16-Sulfon-
	säure (D.R.P. 132968 C. 1903 [2] 315; D.R.P. 145911 C. 1903 [2] 1153).
$C_{16}H_{12}O_2NClS$	1) 1-Chlor-2-Naphtylamid d. Benzolsulfonsäure. Sm. 130 bis 131°. Na + 5C ₂ H ₆ O (C. 1904 [1] 1075; Soc. 85, 378 C. 1904

[1] 1412).

1) 4 - Brom - 2 - Phenylazo - 1 - Amidonaphtalin - 24 - Sulfonsäure C16H12O8N8BrS (Soc. 85, 752 C. 1904 [2] 448).

1) P-Brom-1-Dimethylamido-9, 10-Anthrachinon-4-Sulfon- $C_{16}H_{12}O_5NBrS$ säure (D.R.P. 146691 C. 1903 [2] 1352).

C16H18ON4S8P 1) Phosphoryltrithiocyanat + Phenylbenzylamin. bis 138° (Soc. 85, 368 C. 1904 [1] 1407). Di[3-Chlorphenylamid] d. Dimethyldiselenid-αα'-Dicarbon-säure. Sm. 183° (Ar. 241, 209 C. 1903 [2] 104). C16H14O2N2Cl2Se2 $C_{16}H_{14}O_{2}N_{2}Br_{2}Se_{2}$ 1) Di[3-Bromphenylamid] d. Dimethyldiselenid-αα'-Dicarbonsaure. Sm. 1980 (Ar. 241, 213 C. 1903 [2] 104). 1) Aethylester d. P-Brom-α-Benzoyl-α-Phenylhydrazin-β-Dithio-C16H15ON2BrS2 carbonsäure. Sm. 117° (*J. pr.* [2] 67, 240 *C.* 1903 [1] 1263).

1) Jodmethylat d. 3,4,5,6-Tetrabrom-4'-Dimethylamido-2-Oxy-C₁₆H₁₆ONBr₄J diphenylmethan. Sm. 165—166° (A. 334, 328 C. 1904 [2] 988). $C_{16}H_{17}ONBr_{8}J$ 1) Jodmethylat d. 2,3,5-Tribrom-4'-Dimethylamido-4-Oxydiphenylmethan. Sm. 171—173° (A. 334, 332 C. 1904 [2] 988). 1) Jodmethylat d. 3,5-Dibrom-4'-Dimethylamido-4-Oxydi-C₁₆H₁₈ONBr₂J phenylmethan. Sm. 165—170° (A. 334, 338 C. 1904 [2] 989). 1) 2-Methylphenylmonamid d. 1,2,3,4-Tetrahydro-1-Chinolyl-C16H18ON2CIP phosphinsäuremonochlorid. Sm. 122° (A. 326, 198 C. 1903 [1] 821). *1) Diäthylmonamid d. Thiophosphorsäurediphenylester. Sm. 70° C14H20O2NSP (A. 326, 211 C. 1903 [1] 822). 1) 2,4-Dibromphenylamid-1,1-Dipiperidid d. Phosphorsäure. C16H24ON8Br2P Sm. 186° (A. 326, 236 C. 1903 [1] 867). — *IV, 10.
1) 1, 1 - Dipiperidid d. Thiophosphorsauremonophenylester. C16H25ON2SP Sm. 108 (A. 326, 217 C. 1903 [1] 822). — *IV, 10. 1) 3-Bromphenylmonamid-1,1-Dipiperidid d. Phosphorsäure C₁₆H₂₅ON₃BrP (A. 326, 234 C. 1903 [1] 867) 2) 4-Bromphenylmonamid-1,1-Dipiperidid d. Phosphorsaure. Sm. 169° (A. 326, 233 C. 1903 [1] 867). — *IV, 10.

1) α-Verbindung (aus Methylheptenonoxim). Sm. 114° (A. 329, 188 C. 1903 [2] 1414).

2) β-Verbindung (aus Methylheptenonoxim). Sm. 150° u. Zers. (A. 329, 187 C. 1903 [2] 1414). $C_{16}H_{28}O_2N_2J_4Hg_8$

C₁₇-Gruppe.

C₁₇H₁₂
 *1) Chrysofluoren. Sm. 188°; Sd. 413°. Pikrat (A. 335, 134 C. 1904 [2] 1134).
 *1) α-Phenyl-β-[4-Isopropylphenyl]äthen. Sm. 84° (85°) (B. 35, 3969 C. 1903 [1] 31; A. 333, 241 C. 1904 [2] 1390).
 C₁₇H₂₂
 Kohlenwasserstoff (aus Benzyltanacetylalkohol). Sd 165°₁₆ (B. 36, 4370 C. 1904 [1] 455).
 C₁₇H₈₀
 C 87,2 — H 12,8 — M. G. 234.
 Kohlenwasserstoff (aus Petroleum). Sd. 210—215°₀₀ (C. 1904 [1] 61).

- 17 II -

*1) Chrysoketon. Sm. 132,5° (A. 335, 132 C. 1904 [2] 1134).

*3) \$\alpha\$-Chrysidin (2,1-Naphtakridin). Sm. 108°. HCl, HNO3, Pikrat (B. 37, 2924 C. 1904 [2] 1411).

*4) \$\beta\$-Chrysidin (1,2-Naphtakridin). Sm. 131°. HCl, HNO3, Pikrat (B. 37, 2926 C. 1904 [2] 1412; B. 37, 3078 C. 1904 [2] 1474).

8) \$\alpha\$-Naphtophenanthridin. Sm. 135,5°. HCl \$\pm\$-HCl, HNO3, Pikrat (B. 37, 2926 C. 1904 [2] 1133).

9) \$\beta\$-Naphtophenanthridin. Sm. 135,5°. HCl \$\pm\$-HCl, HNO3, Pikrat (A. 335, 127 C. 1904 [2] 1133).

9) \$\beta\$-Naphtophenanthridin. Sm. 182°. HCl (A. 335, 129 C. 1904 [2] 1133).

C_{17}H_{12}O_{17}H_{12}O_{2} *4) Phenyl-1-Naphtylketon (B. 37, 628 C. 1904 [1] 810).

*4) Phenyl-1-Naphtylketon (B. 37, 628 C. 1904 [1] 810).

C_{17}H_{19}O_{2} *1094 [2] 1134).

C. 1904 [2] 1134).
 C₁₇H₁₂O₈ *13) Anhydrid d. αα-Diphenylpropen-βη-Dicarbonsäure. Sm. 147-150° u. Zers. (A. 330, 354 C. 1904 [1] 929).

22) Anhydrid d. $\gamma\gamma$ -Diphenylpropen- $\alpha\beta$ -Dicarbonsäure. Sm. 96—98°. + C_0H_6 (A. 330, 357 O. 1904 [1] 929).

23) Aldehyd d. 2-Benzoxylnaphtalin-1-Carbonsäure. Sm. 109° (Bl. [3] 29, 879 C. 1903 [2] 885).

18) 2-Keto-5, 6-Dioxy-1-Cinnamyliden-1, 2-Dihydrobenzfuran. Sm. 236°

C17H12O4

(B. 37. 826 C. 1904 [1] 1152). 19) 3-Acetoxylphenanthren-2-Carbonsäure. Sm. 207-208° (B. 35, 4427 C. 1903 [1] 334). 20) 2 - Acetoxylphenanthren - 3 - Carbonsäure. Sm. 210° (B. 35, 4428 C. 1903 [1] 334). 21) Lakton (aus d. Lakton C₁₇H₁₄O₅, Sm. 153°). Sm. 183° (A. 333, 264 O. 1904 [2] 1392).
22) Acetat d. 3-Oxy-2-Phenyl-1,4-Benzpyron. Sm. 110—111° (B. 37, 2820 C. 1904 [2] 712). *8) 4-Acetat d. 3,4-Dioxyphenanthrenchinon-3-Methyläther (Acetyl-C17H12O5 methylmorpholchinon). Sm. 208—209° (corr.) (B. 35, 4415 C. 1903 [1] 344). 15) αγ-Lakton d. α-Oxy-γ-Keto-β-Phenyl-α-[3,4-Dioxyphenyl] propen-3,4-Methylenäther-γ-Carbonsäure. Sm. 208—209° (A. 333, 255 C. 1904 [2] 1391). 16) isom. Lakton d. α -Oxy- γ -Keto- β -Phenyl- α -[3,4-Dioxyphenyl] propen-3,4-Methylenäther-y-Carbonsäure. Sm. 205° (A. 333, 255 C. 1904 [2] 1391). 17) Lakton d. β -Oxy- α -Phenyl- β -[3,4-Dioxyphenyl] äthan-3,4-Methylenäther- α -Ketocarbonsäure. Sm. 205° (\tilde{B} . 36, 2346 \tilde{C} . 1903 [2] 433). 18) isom. Lakton d. β -Oxy- α -Phenyl- β -[3,4-Dioxyphenyl] äthan-3,4-Methylenäther-α-Ketocarbonsäure. Sm. 205° (B. 36, 2346 C. 1903 [2] 433). 12) Fukugetin $+ \frac{11}{2}$ H₂O. Sm. $288 - 290^{\circ}$ (wasserfrei) (Soc. 85, 59 C. 1904) $C_{17}H_{12}O_6$ [1] 380, 729). 13) Diacetat d. 2,3-Dioxyxanthon. Sm. 186° (B. 37, 2735 C. 1904 [2] 542).
8) 3'-Amido-1,2-Naphtakridin. Sm. 270°. HCl (B. 37, 3082 C. 1904) $C_{17}H_{12}N_{2}$ [2] 1474). 10) 1,2-Naphto-2'-Methylcarbazol. Sm. 181°. Pikrat (4. 332, 103 C. 1904) $C_{17}H_{18}N$ [1] 1571). 5) 1-[4-Methylphenyl]- $\beta\beta$ -Naphtisotriazol. Sm. 145° (A. 332, 103 C17H18N8 C. 1904 [1] 1571). C17H14O *1) $1-[\alpha-Oxybenzyl]$ naphtalin ($\alpha-Oxyphenyl-1-Naphtylmethan).$ (B. 37, 628 C. 1904 [1] 810). *5) s-Keto- α s-Diphenyl- $\alpha\gamma$ -Pentadiën. (HCl, SbCl₅), (HCl, SnCl₄), + 2FeCl₈ (B. 37, 3670 C. 1904 [2] 1569). *6) Dibenzylidenaceton (C. 1903 [2] 284; B. 37, 1650 C. 1904 [1] 1603; B. 37, 3284 C. 1904 [2] 1038; B. 37, 3669 C. 1904 [2] 1569). 8) α -Oxy- α -Phenyl- α -[1-Naphtyl]metan. Sm. 85—86° (B. 37, 2757 C. 1904 [2] 707). 9) 2-Oxy-1-Benzylnaphtalin. Sm. 115-116° (G. 33 [2] 489 C. 1904 [1] 656). 10) 4-Oxy-1-Benzylnaphtalin. Sm. 125-126° (G. 33 [2] 471 C. 1904 [1] 655) 28) 5-Oxy-1-Keto-3,4-Diphenyl-2,3-Dihydro-R-Penten. Sm. 176 ° (B. 36, 1494 C. 1903 [1] 1350; B. 37, 1133 C. 1904 [1] 1256). $C_{17}H_{14}O_{2}$ 29) γ -Keto- β -Benzoyl- α -Phenyl- α -Buten (Benzylidenbenzoylaceton). Sm. 98—99° (B. 36, 2134 C. 1903 [2] 366). 30) Lakton d. α -Oxy- $\alpha\beta$ -Diphenyl- β -Buten- γ -Carbonsäure. Sm. 88.5 Soc. 83, 290 C. 1903 [1] 877). 31) Verbindung (aus $\alpha\beta$ -Dioxy- $\alpha\beta$ -Diphenylbutan- $\alpha\gamma$ -Dicarbonsäure). Sm. 138—139° (Soc. 83, 293 C. 1903 [1] 877). *1) γ -Keto- α s-Di[2-Oxyphenyl]- α δ -Pentadiën (Lygosin). Na, Na₂ \rightarrow 7 Π_{γ} () C17H14O3 (*C.* **1903** [1] 835). *3) Dibenzoylaceton (B. 37, 3449 C. 1904 [2] 1273) 39) lab. γ -Keto- αs -Di [4-Oxyphenyl]- $\alpha \delta$ -Pentadiën. Sm. 232°. (B. 36, 133 O. 1903 [1] 458). 40) stab. γ-Keto-αs-Di [4-Oxyphenyl]-αδ-Pentadiën. Sm. 237—238". HCl, HBr, H₂SO₄ (B. 36, 130 C. 1903 [1] 457). 41) α-Keto-αβ-Diphenyl-β-Buten-γ-Carbonsäure (Desylenpropionsäure).
 Sm. 174,5° (Soc. 83, 280 C. 1903 [1] 877). 42) Lakton d. γ-Oxy-γ-[4-Oxyphenyl]-α-Phenylpropen-4-Methyläther-α-Carbonsäure. Sm. 105° (B. 36, 2524 C. 1903 [2] 575).

- 43) Lakton d. γ -Oxy- β -Phenyl- γ -[4-Oxyphenyl] propen-4-Methyläther- α -Carbonsäure. Sm. 105 ° (A. 333, 273 C. 1904 [2] 1392). C17H14O3
 - 44) Lakton d. α-Oxy-β-Phenyl-α-[4-Oxyphenyl]propen-4-Methyläther-γ-Carbonsäure. Sm. 122° (B. 36, 2524 C. 1903 [2] 575; A. 333, 273 C. 1904 [2] 1392).
- *3) Dimethyläther d. 7,8-Dioxy-2-Phenyl-1,4-Benzpyron. Sm. 151° (B. 36, 4239 C. 1904 [1] 381). C17H14O4

 - *11) $\alpha\alpha$ -Diphenylpropen- $\beta\gamma$ -Dicarbonsäure (A. 330, 352 C. 1904 [1] 929). 25) Monomethyläther d. 1,7-Dioxy-2,6-Dimethyl-9,10-Anthrachinon.
 - Sm. 214—215° (Soc. 83, 1332 C. 1904 [1] 100).

 26) Dimethyläther d. 5,6-Dioxy-2-Keto-1-Benzyliden-1,2-Dihydrobenzfuran. Sm. 148—149,5° (B. 29, 2433). *III, 532.

 27) Dimethyläther d. 3,6-Dioxy-2-Phenyl-1,4-Benzpyron. Sm. 128 bis
 - 129° (B. 37, 778 C. 1904 [1] 1156).
 - 28) 6-Aethyläther d. 3,6-Dioxy-2-Phenyl-1,4-Benzpyron. Sm. 177 bis 178° (B. 37, 777 C. 1904 [1] 1156).

 - 29) γγ Diphenylpropen αβ Dicarbonsäure. Sm. 105 115° u. Zers. Ca + 2H₂O, Ba + 3'/₂H₂O, Ag₂ (A. 330, 357 C. 1904 [1] 929).
 30) 3.4 Dioxyphenanthrendimethyläther P Carbonsäure. Sm. 196° (B. 35, 4392 C. 1903 [1] 339).
 - 31) αγ-Lakton d. α-Oxy-γ-Keto-β-Phenyl-α-[4-Oxyphenyl] propan-4-Methyläther-γ-Carbonsäure. Sm. 191° (A. 333, 268 C. 1904 [2] 1392).
 32) Aethylester d. αβ-Diketo-αβ-Diphenyläthan-2-Carbonsäure. Sm.
 - 71° (B. 23, 1345). *II, 1098.
 - 33) Verbindung (aus Chrysarobin). Sm. 1810 (Soc. 81, 1583 C. 1903 [1] 34, 167).
- 26) Trimethyläther d. 1, 2, 3-Trioxy-9, 10-Anthrachinon. Sm. 168° (M. 23, 1020 C. 1903 [1] 291). C17H14O5
 - 27) 22,6-Dimethyläther d. 3,6-Dioxy-2-[2-Oxyphenyl]-1,4-Benzpyron.
 - Sm. 187—188° (B. 37, 2348 C. 1904 [2] 230).
 28) 2°,6-Dimethyläther d. 3,6-Dioxy-2-[3-Oxyphenyl]-1,4-Benzpyron. Sm. 144° (B. 37, 959 C. 1904 [1] 1160).
 - 29) 24,6-Dimethyläther d. 3,6-Dioxy-2-[4-Oxyphenyl]-1,4-Benzpyron. Sm. 184—185° (B. 37, 783 C. 1904 [1] 1159).
 - 30) 22,7-Dimethyläther d. 3,7-Dioxy-2-[2-Oxyphenyl]-1,4-Benzpyron.
 - Sm. 203° (B. 37, 4157 C. 1904 [2] 1658).
 31) 2³,7-Dimethyläther d. 3,7-Dioxy-2-[3-Oxyphenyl]-1,4-Benzpyron.
 Sm. 170° (B. 37, 4160 C. 1904 [2] 1658).
 - 32) 24,7-Dimethyläther d. 3,7-Dioxy-2-[4-Oxyphenyl]-1,4-Benzpyron. Sm. 196—197° (B. 37, 4162 C. 1904 [2] 1659).
 - 33) 5,7-Dimethyläther d. 3,5,7-Trioxy-2-Phenyl-1,4-Benzpyron. Sm.
 - 177—178° (B. 37, 2804 C. 1904 [2] 712).
 34) 7,8-Dimethyläther d. 3,7,8-Trioxy-2-Phenyl-1,4-Benzpyron. Sm. 203° (B. 37, 2808 C. 1904 [2] 713).
 - 35) γ -Oxy- β -Phenyl- α -[3,4-Dioxyphenyl]propen-3,4-Methylenäthery-Carbonsäure. Sm. 147° (A. 333, 266 C. 1904 [2] 1392).
 - 36) α -Keto- β -Phenyl- α -[3,4-Dioxyphenyl]propan-3,4-Methylenäther-
 - γ-Carbonsäure. Sm. 157° (A. 333, 263 C. 1904 [2] 1391). 37) 3,4,6-Trioxyphenanthren-3,6-Dimethyläther-9-Carbonsäure. Sm. 254—256° (B. 35, 4409 C. 1903 [1] 343).
 - 38) $\alpha \gamma$ -Lakton d. $\alpha \gamma$ -Dioxy β -Phenyl- α -[3,4-Dioxyphenyl]propan-3,4-Methylenäther-y-Carbonsäure. Sm. 153° (A. 333, 260° C. 1904 [2] 1391).
 - 39) isom. Lakton d. $\alpha \gamma$ -Dioxy- β -Phenyl- α -[3,4-Dioxyphenyl]propan-3,4-Methylenäther-y-Carbonsäure. Sm. 155° (A. 333, 260 C. 1904 [2] 1391).
 - 40) Diacetat d. 2,3-Dioxyxanthen. Sm. 110° (B. 37, 2735 C. 1904 [2] 542).
- 7) 5,8-Dimethyläther d. 5,6-Dioxy-2-Keto-1-[3,4-Dioxybenzyliden]- $C_{17}H_{14}O_{6}$ 1,2-Dihydrobenzfuran. K (Soc. 83, 137 C. 1903 [1] 90, 466).
- 19) Benzyliden-2-Naphtylhydrazin. Sm. 194° (C. 1903 [2] 427).
 2) 3-Methyl-1,4-Diphenylbipyrazol. Sm. 232°. Ag (B. 36, 527 C. 1903 C17 H14 N2 C17H14N4 [1] 642).

C. 1904 [2] 1411).

*1) 1-[2-Methylphenyl]amidonaphtalin. Sd. 395-405° (B. 37, 2924

C,7H,5N

*3) 2-[2-Methylphenyl]amidonaphtalin. Sd. 400-405° (B. 37, 2926 C. 1904 [2] 1412). 14) 4-[4-Methylbenzyl]isochinolin. Sm. 66-67°. (3 HCl, 2 HgCl₂), (2 HCl, PtCl₄ + H₂O), H₂SO₄, Pikrat (A. 326, 297 C. 1903 [1] 929). 19) 4-Methyl-6-[3-Amidophenyl]-2-Phenyl-1,3-Diazin. C17 H15 N3 Sm. 104—105° (Soc. 83, 1375 C. 1904 [1] 450). 5) γ-Keto-αs-Diphenyl-α-Penten. Sm. 53° (A. 330, 233 C. 1904 [1] 945).
 *15) Dimethylphenyl-m-Biscyklohexenon. Sm. 151°; Sd. 355° (B. 36, C17H16O C17H16O2 2148 C. 1903 [2] 369). *23) Aethyläther d. a-Oxy-y-Keto-ay-Diphenylpropen. Sm. 77-780 (Soc. 85, 462 C. 1904 [1] 1079, 1438). 56) Trimethyläther d. 3, 4, 6-Trioxyphenanthren (Methylthebaol). Fl. Pikrat (B. 35, 4406 C. 1903 [1] 342; B. 35, 4411 C. 1903 [1] 343; B. 36, 3081 C. 1903 [2] 955). C17H18O8 57) δ -Oxy- $\alpha \gamma$ -Diphenyl- β -Buten- δ -Carbonsäure. Sm. |168° (A. 333, 281 C. 1904 [2] 1393). 58) β-Keto-αγ-Diphenylbutan-δ-Carbonsäure. Sm. 128° (A. 333, 282 C. 1904 [2] 1393). 59) Säure (aus Benzaldehyd u. Bernsteinsäurediäthylester). Sm. 170-1710 u. Zers. Ca, Ba + H₂O (B. 37, 2247 C. 1904 [2] 328). 60) Gem. Anhydrid d. Benzolcarbonsäure u. 1,3,5-Trimethylbenzol-2-Carbonsäure. Sm. 105° (B. 36, 2537 Anm. C. 1903 [2] 720). 61) βδ-Lakton d. βδ-Dioxy-αγ-Diphenylbutan-δ-Carbonsäure. Sm. 113° (A. 333, 278 C. 1904 [2] 1392). 62) isom. $\beta\delta$ -Lakton d. $\beta\delta$ -Dioxy- $\alpha\gamma$ -Diphenylbutan- δ -Carbonsäure. Sm. 153° (A. 333, 278 C. 1904 [2] 1392). 32) α^2, γ^4 -Dimethyläther d. γ -Keto- γ -[2,4-Dioxyphenyl]- α -[2-Oxyphenyl]propen. Sm. 94° (B. 37, 4156 C. 1904 [2] 1658). C17H16O4 33) α^3, γ^4 -Dimethyläther d. γ -Keto $-\gamma$ -[2,4-Dioxyphonyl] $-\alpha$ -[3-Oxyphonyl] propen. Sm. 80—81° (B. 37, 4159 C. 1904 [2] 1658). 34) Dimethyläther d. $\alpha\gamma$ -Diketo- γ -Phenyl- α -[3,5-Dioxyphenyl] propan. Sm. 75°. Cu + C₀H₆ (B. 35, 3902 C. 1903 [1] 27). 35) Dimethyläther d. αγ-Diketo-α-Phenyl-γ-[2,4-Dioxyphenyl] propan. Sm. 55°. Cu (C. 1903 [1] 580; Soc. 85, 160 C. 1904 [1] 724). 36) 3,4-Dimethyläther d. γ-Keto-γ-[2,3,4-Trioxyphenyl]-α-Phenylpropen. Sm. 98° (B. 36, 4238 C. 1904 [1] 381).
 37) Dimethyläther d. 6-Oxy-2-[2-Oxyphenyl]-2, 3-Dihydro-1,4-Benzpyron. Sm. 120° (B. 37, 2348 C. 1904 [2] 230) 38) Dimethyläther d. 6-Oxy-2-[3-Oxyphenyl]-2,3-Dihydro-1,4-Benz-pyron. Sm. 104° (B. 37, 958 C. 1904 [1] 1160). 39) Dimethyläther d. 6-Oxy-2-[4-Oxyphenyl]-2,3-Dihydro-1,4-Benz-pyron. Sm. 160° (B. 37, 782 C. 1904 [1] 1159). 40) Dimethyläther d. 7-Oxy-2-[2-Oxyphenyl]-2,3-Dihydro-1,4-Benz-pyron. Sm. 102° (B. 37, 4157 C. 1904 [2] 1658). 41) Dimethyläther d. 7-Oxy-2-[3-Oxyphenyl]-2, 3-Dihydro-1, 4-Benzpyron. Sm. 104° (B. 37, 4159 C. 1904 [2] 1658). 42) Dimethyläther d. 7-Oxy-2-[4-Oxyphenyl]-2, 3-Dihydro-1, 4-Benz-pyron. Sm. 94—95° (B. 37, 4161 C. 1904 [2] 1659). 43) Dimethyläther d. 5,7-Dioxy-2-Phenyl-2, 3-Dihydro-1,4-Benzpyron. Sm. 146-147° (B. 37, 2803 C. 1904 [2] 712). 44) Dimethyläther d. 7,8-Dioxy-2-Phenyl-2, 3-Dihydro-1,4-Benzpyron. Sm. 115° (B. 36, 4243 C. 1904 [1] 382; B. 37, 2807 C. 1904 [2] 713). 45) γ -Oxy- β -Phenyl- α -[4-Oxyphenyl]propen-4-Methyläther- γ -Carbonsäure. Sm. 145° (A. 333, 273 C. 1904 [2] 1392). 46) α -Keto- β -Phenyl- α -[4-Oxyphenyl|propan-4-Methyläther- γ -Carbonsäure. Sm. 148° (A. 333, 272 C. 1904 [2] 1392). 47) 2-Methyl-1-Benzyliden-R-Penten-5-Carbonsäure-4-[Aethyl- β -Carbonsäure]. Zers. bei 203°. Ag₂ (B. 36, 951 C. 1903 [1] 1022).
48) αγ-Lakton d. αγ-Dioxy-β-Phenyl-α-[4-Oxyphenyl] propan-4-Methyläther-γ-Carbonsäure. Sm. 123° (A. 333, 270 C. 1904 [2] 1392). 49) isom. Lakton d. $\alpha \gamma$ -Dioxy- β -Phenyl- α -[4-Oxyphenyl]propan-4-Methyläther- γ -Carbonsäure. Sm. 155° (A. 333, 271 C. 1904 [2] 1392).

- 50) Diphenylester d. Propan-αγ-Dicarbonsäure. Sm. 54°; Sd. 236,5°₁₅ (B. 35, 4085 C. 1903 [1] 75).
 51) Phenylbenzylester d. Bernsteinsäure. Sm. 51°; Sd. 245-250°₅ $C_{17}H_{16}O_4$ (B. 35, 4077 C. 1903 [1] 74). *8) Dibenzoat d. αβγ-Trioxypropan (B. 36, 1573 Anm. C. 1903 [2] 225). 12) 1,3,8-Trioxy-2,4,5,7-Tetramethylfluoron. H₂SO₄(M. 25, 666 C. 1904 C₁₇H₁₆O₅ 1144).14) Di[2,4-Dioxy-l-Acetyl-?-Phenyl]methan. Sm. oberh. 250° (C. 1903) $C_{17}H_{16}O_{6}$ [1] 922). 15) Methylenbisvanillin. Sm. 155—156° (D.R.P. 75264, 76061). — *III, 75. C 58,6 — H 4,6 — O 36,8 — M. G. 348. C17 H16 O8 1) Di[Acetyl-P-Trioxyphenyl]methan. Sm. 265° (C. 1903 [1] 922). 19) ε-Phenylimido-α-Phenylamido-αγ-Pentadiën. Sm. 85-86° u. Zers. IICl, (2 HCl, PtCl₄), HBr, (HJ, J₂) (4. 333, 308, 314 C. 1904 [2] 1149.
 20) 2,6-Diphenyl-4-Methyl-1,4-Dihydro-1,3-Diazin. Sm. 149-150°. $C_{17}H_{16}N_2$ Sm. 85-86° u. Zers. (2HCl, PtCl₄) (Soc. 83, 1374 C. 1904 [1] 164, 450). 6) 4,4'-Di[Methylcyanamidophenyl]methan. Sm. 155° (B. 37, 2672) C17 H18 N4 C. 1904 [2] 443). 6) 5-[4-Methylphenyl]amido-3-Methyl-1-Phenylpyrazol. Sm. 111° (C. C17H17N8 1900 [2] 654; B. 36, 3273). 7) 5-Methylphenylamido-3-Methyl-1-Phenylpyrazol. Sm. 88,5°; Sd. 220-228°₂₀. (2 HCl, PtCl₄) (B. 36, 3277 C. 1903 [2] 1189). 8) Anitopyrin. Sm. 58-59°. (2 HCl, PtCl₄), HJ, Pikrat (B. 36, 3275 C. 1903 [2] 1189). *4) γ-Keto-αε-Diphenylpentan (A. 330, 234 C. 1904 [1] 945). C17H18O 15) 4-Keto-1,3-Diacetyl-6-Methyl-2-Phenyl-1, 2, 3, 4-Tetrahydrobenzol. C17H18O8 Sm. 68° (B. 36, 2145 C. 1903 [2] 369). 16) Aldehyd d. 3, 4-Dioxybenzol-3-Propyläther-4-Benzyläther-1-Carbonsäure. Sm. 74° (D. R. P. 85196). — *III, 75.
 17) Propylester d. α-Oxydiphenylessigsäure. Sd. 220°₃₅ (B. 37, 2766 C. 1904 [2] 708). 11) α-Acetat d. α-Oxydi[4-Oxyphenyl]methan-4,4'-Dimethyläther. Sm. C17H18O4 83,5° (B. 36, 655 C. 1903 [1] 768). 12) 1,3,6,8 - Tetraoxy - 2,4,5,7 - Tetramethylxanthen. Sm. 320—324° (M. 25, 674 C. 1904 [2] 1145).
 4) Pentaacetat d. 2,4,6-Trioxy-1-Dioxymethylbenzol. Sm. 155—156° $\mathbf{C_{17}H_{18}O_5}$ C17H18O10 (M. 24, 865 C. 1904 [1] 367). *5) Nitril d. α-Phenylamido-α-[4-Isopropylphenyl]essigsäure. Sm. 86° $C_{17}H_{18}N_2$ (B. 37, 4085 C. 1904 [2] 1723). *1) $\alpha\beta$ -Dibrom- α -Phenyl- β -[4-Isopropylphenyl] äthan. Sm. 181° (A. 333, $C_{17}H_{18}Br_{2}$ 241 C. 1904 [2] 1390). 10) Allylbenzyl-2-Methylphenylamin. Sd. 180—183°₂₇. Pikrat (B. 37, C17 H19N 3896 C. 1904 [2] 1612). 11) Allylbenzyl-4-Methylphenylamin. Sd. 214—215%, Pikrat (B. 37, 2721 C. 1904 [2] 592). C17H20O 12) Benzylidentanaceton. Sd. 178° (B. 36, 4367 C. 1904 [1] 455). 13) Verbindung (aus d-Brombenzylidencampher). Sm. 68° (C. r. 132, 1574). - *III, *388.* 14) Verbindung (aus i-Brombenzylideneampher). Sm. 43 ° (C. r. 132, 1574). – *III, *388*. *11) d-α-Benzoyleampher. Sm. 88° (B. 36, 2629, 2639 C. 1903 [2] 625; C. r. 136, 1223 C. 1903 [2] 116).
 13) 4,4'-Dioxy-2,5,2,'5'-Tetramethyldiphenylmethan. Sm. 181-182° (B. 36, 1891 C. 1903 [2] 291; B. 37, 1471 C. 1904 [1] 1518). C17H20O2 14) α - Oxybenzylidencampher (Benzoylcampher - Enolform). (Soc. 83, 98 C. 1903 [1] 233, 458). 15) Benzoat d. 1-Oxycamphen. Sd. 215—220% (Soc. 83, 152 C. 1903 [1] 72, 436).
 6) $\alpha \gamma$ - Di[2-Methylphenyläther] d. $\alpha \beta \gamma$ - Trioxypropan. Sm. 36—37°; Sd. 226°₁₃ (Soc. 83, 1137 C. 1903 [2] 1059).
 7) $\alpha \gamma$ - Di[3 - Methylphenyläther] d. $\alpha \beta \gamma$ - Trioxypropan. Sd. 232°₁₃ C17H20O3
 - (Soc. 83, 1139 C. 1903 [2] 1059). 8) Oxoniumbase (aus p-Phenetol). HCl (B. 36, 653 C. 1903 [1] 768). 9) Aethylester d. Artemisinsäure. Sm. 97—98° (C. 1903 [2] 1377).

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*4) Acetat d. Desmotroposantonin. Sm. 156° (C. 1904 [1] 941).
*5) Acetat d. 1-Desmotroposantonin. Sm. 154° (C. 1904 [1] 941).
C17H20O4
                 *6) Acetat d. r-Desmotroposantonin. Sm. 145° (C. 1904 [1] 941). 
*7) Acetat d. d-Desmotroposantonin. Sm. 154° (C. 1904 [1] 941).
                 16) Acetat d. 1-r-Desmotroposantonin. Sm. 102 (C. 1904 [1] 941).
3) Dimethyläther d. Methylenbismethylphloroglucin. Sm. 228—229° (A. 329, 282 C. 1904 [1] 796).
C17H20O6
                   4) Methylenbisfilicinsäure (A. 329, 290 C. 1904 [1] 796).
                   5) Triäthylester d. 6 - Oxybenzolmethyläther - 1, 3 - Dicarbonsäure-4-Methylcarbonsäure. Sm. 78° (B. 37, 2120 C. 1904 [2] 438).
C17 H20 O8
                 13) \alpha-Phenylimido-\alpha-Diäthylamido-\alpha-Phenylmethan. Sd. 188—189° (2HCl, PtCl<sub>4</sub>), Pikrat (B. 37, 2682 C. 1904 [2] 521).

*2) 4-Dimethylamido-1-[4-Dimethylamidobenzyliden]amidobenzol.
C_{17}H_{20}N_2
C_{17}H_{21}N_3
                       Sm. 229° (B. 37, 858 C. 1904 [1] 1206).
                  *8) a-Imidodi[3-Methylamido-4-Methylphenyl]methan? (Auramin G.).
                       Sm. 119-120°. H<sub>2</sub>SO<sub>4</sub>, Pikrat, Oxalat (C. 1903 [1] 399).
                   9) 4-Dimethylamido-1-[4-Aethylamidobenzyliden]amidobenzol (B. 37,
                       857 C. 1904 [1] 1206).
                  10) 4-[4-Methylamido-3-Methylbenzyliden]amido-1-Dimethylamido-
                       benzol. Sm. 162° (B. 37, 862 C. 1904 [1] 1206).
                  11) 4-Diäthylamidobenzylidenphenylhydrazin. Sm. 103° (B. 37, 861
                       C. 1904 [1] 1206).
                  *2) d-Benzylidenmenthon. Sd. 184-185° (B. 37, 234 C. 1904 [1] 725;
C17 H22 O
                       C. 1904 [2] 1043).
                  *5) isom. Benzylidenmenthon. Sm. 47° (C. 1904 [2] 1044).
                 *6) isom. Benzylidenmenthon. Sm. 51° (C. 1904 2 1044).
                   8) 3-Keto-4-[4-Isopropylidenphenyl]-1-Methylhexahydrobenzol.
                 Sm. 58° (C. r. 136, 1225 C. 1903 [2] 116).

9) Benzyltanaceton. Sd. 180—181°<sub>15</sub> (B. 36, 4370 C. 1904 [1] 455).

*5) Podocarpinsäure (Soc. 85, 1242 C. 1904 [2] 1308).
C17 H29 O3
                   9) 2 - Oxy - 3 - Keto - 2-Benzoyl-4-Isopropyl-1-Methylhexahydrobenzol
                      (Benzoyloxymenthon). Sm. 87°; Sd. 208-210°<sub>12</sub> u. Zers. (C. 1904 [2]
                      1044).
                 10) isom. Benzoyloxymenthon. Sm. 71—72° (C. 1904 [2] 1045). 11) isom. Benzoyloxymenthon. Sm. 100° (C. 1904 [2] 1045).
                 12) d-Bornylester d. 2-Oxybenzol-1-Carbonsäure. Sm. 44-45° (C. 1904)
                       [1] 1580; 1904 [2] 1043).
                   9) Diathylester d. \beta-Benzoylbutan-\alpha \alpha-Dicarbonsäure. Fl. (C. 1904)
C17 H22 O5
                      [1] 1258).
                   4) Olivacein + H<sub>2</sub>O. Sm. 156° (J. pr. [2] 68, 50 C. 1903 [2] 513). 5) Olivaceasäure. Sm. 138° (J. pr. [2] 68, 51 C. 1903 [2] 513). 6) Acetoxylparasantonsäure. Sm. 207° (C. 1903 [2] 1377).
C_{17}H_{22}O_6
                 *4) 3-Keto-4-Isopropyl-2-Benzyl-1-Methylhexahydrobenzol.
C17 H24O
                       bis 180°<sub>10</sub> (B. 37, 236 C. 1904 [1] 726).
                   5) Benzyltanacetylalkohol. Sd. 181-182° (B. 36, 4370 C. 1904 [1]
                 *4) Benzoat d. l-Menthol. Sm. 55°; Sd. 179°<sub>12</sub> (A. 327, 194 C. 1903 [1]
C_{17}H_{24}O_{2}
                   5) Capronat d. \gamma-[2-Oxyphenyl]-\beta-Penten. Sd. 175—177°<sub>20</sub> (Bl. [3] 29, 354 C. 1903 [1] 1222).
                  6) Benzoat d. d-Menthol. Sm. 82° (J. pr. [2] 63, 57). — *III, 336. 13) Aethylester d. Desmotroposantonigen Säure. Sm. 116—117° (G. 25
C<sub>17</sub>H<sub>24</sub>O<sub>8</sub>
                       [1] 514). — *II, 978.
                  *5) Aethylester d. Parasantonsäure. Sm. 172° (C. 1903 [2] 1446).
C17 H24O4
                   9) Diacetat d. 4-Dioxymethyl-5-tert. Butyl-1, 3-Dimethylbenzol.

    Sm. 87° (B. 32, 3648). — *III, 45.
    αγ-Diacetat d. αγ-Dioxy-α-[3-Oxyphenyl]-ββ-Dimethylpropan-3-Aethyläther. Sd. 202°<sub>18</sub> (M. 24, 172 C. 1903 [1] 968).
    ααγγεε-Hexacetylpentan (Dimethylentrisacetylaceton). Sm. 101° (B. 36, 2179 C. 1903 [2] 372).
    Υονίκη Διπο (σκ. Δετ. 1903 [2] 372).

C_{17}H_{24}O_5
C17H24O6
                   5) Verbindung (aus Acetylaceton u. Formaldehyd). Sm. 181º (A. 323, 109;

A. 332, 21 Anm. C. 1904 [1] 1565).
3) Triäthylester d. Methylglutakonylglutakonsäure. Sd. 224—226° u. ger. Zers. (C. r. 136, 693 C. 1903 [1] 960).

C17H24O7
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$\mathbf{C_{17}H_{24}O_{10}}$	3) Tetraäthylester d. $\alpha \varepsilon$ -Diketopentan- $\alpha \beta \delta \varepsilon$ -Tetracarbonsäure. Sm. 80-81° (C. r. 139, 137 C. 1904 [2] 602).
$egin{array}{c} \mathbf{C}_{17}\mathbf{H}_{25}\mathbf{N} \\ \mathbf{C}_{17}\mathbf{H}_{26}\mathbf{O} \end{array}$	8) Benzyltanacetylamin. Sd. 185—190° ₂₅ (B. 36, 4371 C. 1904 [1] 455). *1) 3-Oxy-4-Isopropyl-2-Benzyl-1-Methylhexahydrobenzol. Sd. 179 bis 180° ₆ (B. 37, 236 C. 1904 [1] 725).
	6) Verbindung (aus Guttapercha). Sm. 201—204° (C. 1903 [1] 83). 7) Verbindung (aus Guttapercha). Sm. 201—204° (C. 1903 [1] 83; 1903 [2] 1177).
$\mathbf{C_{17}H_{26}O_4}$	 4) Diacetat d. 9-Methyl-3-Isopropenylbicyklo-[1,3,3]-Nonan-5,7-diol. Sd. 193—196°₁₃ (B. 36, 231 C. 1903 [1] 514). 5) Diacetat d. isom. 9-Methyl-3-Isopropenylbicyklo-[1,3,3]-Nonan-
$C_{17}H_{26}O_{5}$	5,7-diol. Sd. 194—196° ₁₅ (B. 36, 233 C. 1903 [1] 514). 3) Verbindung (aus Guttapercha oder C ₁₇ H ₂₈ O ₅). Sm. 133° (C. 1903 [1] 84).
C ₁₇ H ₂₈ O C ₁₇ H ₂₈ O ₂	4) Verbindung (aus Guttapercha). Sm. 190-197° (C. 1903 [1] 83). 10) Gurjoresen. Sm. 40-43° (Ar. 241, 382 C. 1903 [2] 724). 11) Methyläther d. Storesinol (Ar. 239, 523). — *III, 425. 12) 1-Menthylester d. 1, 2, 3, 4-Tetrahydrobenzol-1-Carbonsäure.
	Sd. 176° ₁₂ (A. 327, 195 C. 1903 [1] 1396). 13) 1-Menthylester d. 1,2,3,4-Tetrahydrobenzol-5-Carbonsäure.
	Sd. 178° ₁₂ (A. 327, 195 C. 1903 [1] 1396). 14) Acetat d. Atractylol. Fl. (Ar. 241, 30 C. 1903 [1] 712). 15) Acetat d. Gurjuresinol. Sm. 96° (Ar. 241, 388 C. 1903 [2] 724).
$C_{17}H_{28}O_8$	5) 1-Menthylester d. β-Keto-γ-Hexen-γ-Carbonsäure. Sm. 84-88° (Soc. 85, 51 C. 1904 [1] 360, 788).
C17H28O4	2) Pleopsidsäure. Sm. 131—132°. Ag (A. 327, 317 C. 1903 [2] 508).
$\mathbf{C_{17}H_{28}O_{5}}$	2) Diäthylester d. Pulegonmalonsäure. Sd. 209—210 25 (B. 33, 3186 Anm.). — *III, 383.
A **** A	3) Verbindung (aus Guttapercha). Sm. 120—125° (C. 1903 [1] 84). *2) Elaeomargarinsäure. Sm. 48° (C. 1904 [2] 949).
$\mathbf{C_{17}H_{50}O_{2}}$	5) l-Menthylester d. α-Hexen-α-Carbonsäure. Sd. 174—175,5 $^{o}_{14}$ (A. 327, 177 C. 1903 [1] 1396).
	6) 1-Menthylester d. Hexahydrobenzolcarbonsäure. Sm. 48°; Sd. 170°; (A. 327, 186, 196 C. 1903 [1] 1396).
$\mathbf{C_{17}H_{80}O_{4}} \\ \mathbf{C_{17}H_{80}O_{5}}$	 2) Säure (aus Chaulmoograsäure). Ag₂ (Soc. 85, 860 C. 1904 [2] 349, 604). 3) Säure (aus Chaulmoograsäure). Sm. 128°. Ag₂ (Soc. 85, 861 C. 1904).
$C_{17}H_{82}O_{2}$	[2] 349, 604). 3) 1-Menthylester d. Oenanthsäure. Sd. 165° ₁₅ (B. 31, 364). — *III, 334.
$\mathbf{C}_{17}\mathbf{H}_{82}\mathbf{O}_{8}$	C 71.8 — H 11.6 — O 16.9 — M. G. 284. 1) Myristat d. α-Oxy-β-Ketopropan. Sd. 224—226° ₂₆ (C. r. 138, 1275 C. 1904 [2] 93).
C17 H32 O4	*7) Lichestronsäure. Sm. 80° (J. pr. [2] 68, 33 C. 1903 [2] 512). *1) Oxyroccellsäure. Sm. 128° (J. pr. [2] 68, 67 C. 1903 [2] 514).
$C_{17}\mathbf{H}_{82}O_{5} \\ C_{17}\mathbf{H}_{32}O_{10}$	2) Maclavin, Sm. 158—165° (<i>Oh. Z.</i> 20, 970), — "111, 444.
C ₁₇ H ₈₄ O	5) Aldehyd d. Margarirsäure. Sm. 36°. $+ C_2H_6O$ (Sm. 52°), $+ \text{NaHSO}_8$ (Soc. 85, Signature). 1904 2 204, 509).
$C_{17}\mathbf{H}_{84}O_{2}$	*1) Margarinsäure. Ag (Soc. 85, 836 C. 1904 [2] 509). 10) Säure (aus Schweinefett). Sm. 55-56° (B. 36, 2770 C. 1903 [2] 896; C. 1904 [2] 414).
$\mathbf{C}_{17}\mathbf{H}_{84}\mathbf{O}_{3}$	5) α-Oxyhexadekan-α-Carbonsäure. Sm. 89° (Soc. 85, 838 C. 1904 [2] 509).
C17H84O4	2) α -Myristat d. $\alpha\beta\gamma$ -Trioxypropan. Sm. 68°; Sd. 162° (B. 36, 4342 C. 1904 [1] 434).
	_ 17 III _
$C_{17}\mathbf{H}_{9}O_{4}\mathbf{Br}_{9}$	 Diacetat d. α, 2, 3, 5, 2′, 3′, 5′-Heptabrom-4, 4′-Dioxydiphenylmethan. Sm. 227—228° (A. 330, 70 C. 1904 [1] 1147).

Sm. $227-228^{\circ}$ (A. 330, 70 C. 1904 [1] 1147).

C₁₇H₁₀O₂N₂
C₁₇H₁₀O₄Br₆
1) Diacetat d. 2,3,5,2',3',5'-Hexabrom-4,4'-Dioxydiphenylmethan. Sm. 215° (A. 330, 68 C. 1904 [1] 1147).

C₁₇H₁₀O₅Br₂
1) Dibromfukugetin. Sm. 280° (Soc. 85, 60 C. 1904 [1] 380, 729).

C₁₇H₁₀O₈Br₄
1) Aethyläther d. Tetrabrommyricetin. Sm. 146° (Soc. 85, 62 C. 1904 [1] 381, 729).

 $\mathbf{C}_{17}\mathbf{H}_{18}\mathbf{OBr}_{8}$

*1) Oximidochrysofluoren. Sm. 2020 u. Zers. (A. 335, 133 C. 1904 [2] C17H11ON 1134). 7) 7-Oxy-1,2-Naphtakridin. Sm. 322°. HCl (B. 37, 3080 C. 1904 [2] 1474). 8) α -Naphtophenanthridon. Sm. 332,5° (A. 335, 126 C. 1904 [2] 1133), 9) β -Naphtophenanthridon. Sm. 338° (A. 335, 128 C. 1904 [2] 1133). 3) Verbindung (aus Cinnamylidenacetophenon). Sm. 80-90° (C. 1903) $C_{17}H_{11}OBr$ [2] 945). *2) Benzoat d. 2-Oximido-1-Keto-1, 2-Dihydronaphtalin. Sm. 189 bis C17H11O8N 190° u. Zers. (B. 36, 4169 C. 1904 [1] 287). 7) Methyläther d. Oxyphenonaphtoxazon. Sm. 270-271° (B. 36, 1812) C. 1903 [2] 206). C 62.8 - H 3.4 - O 29.5 - N 4.3 - M. G. 325. $C_{17}H_{11}O_8N$ 1) 2-Keto-5,6-Dioxy-1-[4-Nitrocinnamyliden]-1,2-Dihydrobenzfuran. Sm. 265° (B. 37, 526 C. 1904 [1] 1152). C₁₇H₁₁O₈N₈ *2) 3,5-Dinitro-2-[1-Naphtyl]amidobenzol-1-Carbonsäure. Sm. 226° u. Zers. (G. 33 [2] 328 C. 1904 [1] 278).

*3,5-Dinitro-2-[2-Naphtyl]amidobenzol-1-Carbonsäure. Sm. 210° u.
Zers. (G. 33 [2] 329 C. 1904 [1] 278).
C 47,6 — H 2,6 — O 33,5 — N 16,3 — M. G. 429. C17 H11 O9 N5 1) 2,4-Dinitrophenyläther d. 2,4-Dinitrophenylpyridoniumhydroxyd. Sm. 142—143° (A. 333, 302 C. 1904 [2] 1147). *1) Benzoat d. 1-Merkaptonaphtalin. Sm. 117-118° (Bl. [3] 29, 764 C,, H,, OS C. 1903 [2] 621). $C_{17}H_{12}O_2N_2$ *11) Nitril d. α -[4-Nitrophenyl]- δ -Phenyl- $\alpha\gamma$ -Butadiën- α -Carbonsäure. Sm. 209—210° (A. 336, 216 C. 1904 [2] 1732). 12) 2-[2-Nitrobenzyliden amidonaphtalin. Sm. 91° (B. 36, 594 C. 1903) [1] 725). 13) 2-[3-Nitrobenzyliden]amidonaphtalin. Sm. 90° (B. 36, 593 C. 1903 [1] 724). (2HCl, PtCl₄), (HCl, AuCl₃), HNO₈, H₂SO₄ (B. 36, 1667 C. 1903 [2] 48). 15) α-[2-Nitrophenyl]-β-[4-Chinolyl]äthen. Sm. 162°. HCl, (HCl, HgCl₂), (2HCl, PtCl₄), (HCl, AuCl₃), HNO₃ (B. 36, 1669 C. 1903 [2] 49).

16) α-[4-Nitrophenyl]-β-[4-Chinolyl]äthen. Sm. 221°. HCl, (2HCl, HgCl₂), (2HCl, PtCl₄), (HCl, AuCl₃), HBr, Pikrat (B. 36, 1670 C. 1903 [2] 49).

**C₁₇H₁₂O₄N₂ 11) 4-Nitrophenyläther d. 2-Oximido-1-Keto-1, 2-Dihydronaphtalin. Sm. 199° (B. 36, 4169 C. 1904 [1] 287). $C_{17}H_{12}O_4N_4$ 2) Nitril d. β -Cyan- $\alpha\gamma$ -Di [4-Nitrophenyl] propan- β -Carbonsäure. Sm. 219—221° (G. 32 [2] 361 C. 1903 [1] 629). C₁₇H₁₂O₄Br₂ 1) Dimethyläther d. 6,8-Dibrom-5,7-Dioxy-2-Phenyl-1,4-Benzpyron. Sm. 253° (B. 37, 3167 C. 1904 [2] 1059). $C_{17}H_{12}O_4Br_4$ 1) Diacetat d. 3, 5, 3', 5'-Tetrabrom-4, 4'-Dioxydiphenylmethan. Sm. 168 bis 169° (B. 36, 1886 C. 1903 [2] 291; A. 330, 67 C. 1904 [1] 1147). C 58,0 — H 3,4 — O 22,7 — N 15,9 — M. G. 352. C17H12O5N4 1) 5-Keto-3-Methyl-4-[2,4-Dinitrobenzyliden]-1-Phenyl-4,5-Dihydropyrazol. Sm. 160° (B. 37, 1870 C. 1904 [1] 1604).

*5) 2-Amidophenyl-1-Naphtylketon. Sm. 140,5° (B. 35, 4277 C. 1903 C₁₇H₁₈ON

[1] 333).

28) 3-Phenyl-5-[β-Phenyläthenyl]isoxazol? Sm. 126—127° (B. 36, 1498 C. 1903 [1] 1351). 1) Tribromdihydrocinnamylidenacetophenon. Sm. 129 ° u. Zers. (C. 1903

[2] 945). 38) 3,4-Methylenäther d. 3-[3,4-Dioxybenzyliden]-2-Methylindol. C₁₇H₁₈O₂N HCl (B. 37, 323 C. 1904 [1] 668).

39) 1-Phenylamidonaphtalin-12-Carbonsäure. Sm. 205—2060 (D.R.P. 145189 C. 1903 [2] 1097).

40) 2-Phenylamidonaphtalin-22-Carbonsäure. Sm. 208-209 (D.R.P. 145 189 C. 1903 [2] 1097). 41) Nitril d. $\alpha\delta$ -Dioxy- $\alpha\delta$ -Diphenyl- $\alpha\gamma$ -Butadiën- γ -Carbonsäure (β -Cyan-

diphenacyl). Sm. 1180 (B. 36, 2415 C. 1903 [2] 500). 42) Verbindung (aus 2-Methylchinolin u. Protokatechualdehyd). Sm. 249°. $HCI + H_2O$ (B. 36, 4331 C. 1904 [1] 449).

- $C_{17}H_{13}O_9N$ 43) Verbindung (aus 4-Methylchinolin u. Protokatechualdehyd). HCl, (2 HCl, PtCl₄) (B. 36, 4331 C. 1904 [1] 449).
- $C_{17}H_{13}O_2N_3$ 5) 2-Phenylsemicarbazon-1-Keto-1, 2-Dihydronaphtalin. Sm. 250 bis 251° (A. 334, 200 C. 1904 [2] 835).
 - 6) 4-Methyl-6-[3-Nitrophenyl]-2-Phenyl-1,3-Diazin. Sm. 137-138° (Soc. 83, 1375 C. 1904 [1] 164, 450).
 - 7) Phenylamid d. 4-Oxy-I-Naphtylazoameisensäure. Sm. 235° u. Zers. (A. 334, 197 C. 1904 [2] 835).
- $C_{17}H_{13}O_2N_5$ C 64,0 - H 4,1 - O 10,0 - N 21,9 - M. G. 319.
 - 1) ?-Nitro-3-Methyl-1,4-Diphenylpyrazol. Sm. oberh. 300° (B. 36, 528 C. 1903 [1] 642).
 - 2) Nitril d. Methyl-4- $[\alpha$ -Cyan-4-Nitrobenzyliden]amidophenylamidoessigsäure. Sm. 195° (B. 37, 2638 C. 1904 [2] 519).
- 4) P-Brom-αδ-Diphenyl-αγ-Butadiën-α-Carbonsäure. Sm. 200-201° C17H18O2Br (J. pr. [2] 68, 534 C. 1904 [1] 452).
- C₁₇H₁₈O₃N *12) Säure (aus 2-Methylindol u. Phtalsäureanhydrid). Sm. 200° (B. 37, 1223 C. 1904 [1] 1272).
 - 21) ?-Nitro-4-Oxy-1-Benzylnaphtalin. Zers. bei 80-90° (G. 33 [2] 477 C. 1904 [1] 655).
- $\textbf{C}_{17}\textbf{H}_{18}\textbf{O}_{8}\textbf{N}_{3} \hspace{0.2cm}\textbf{10)} \hspace{0.2cm} \textbf{5-Keto-3-Methyl-4-[2-Nitrobenzyliden]-1-Phenyl-4,5-Dihydro-pheny$
 - pyrazol. Sm. 154° (B. 37, 1870 C. 1904 [1] 1601). 11) Anhydrid d. Phenylimidoessigsäure-2-Carbonsäure- α -Acetylphenylhydrazid. Sm. 260-262° (A. 332, 238 C. 1904 [2] 38).
- 8) Acetat d. Bromdioxymethylphenanthren. Sm. 166° (A. 297, 214). C17H18O8Br - *III, 672.
- 13) γ -Keto- β -Benzoyl- α -[3-Nitrophenyl]- α -Buten. Sm. 111—112 ° (Soc. 83, $C_{17}H_{18}O_4N$ 1377 C. 1904 [1] 164, 450).
 - 14) δ -Phenyl- α -[4-Nitrophenyl]- $\alpha\gamma$ -Butadiën- α -Carbonsäure. Sm. 259° u. Zers. Na + 2H₂O (B. 37, 1123 C. 1904 [1] 1210; A. 336, 215 C. 1904 [2] 1732).
 - 15) Methylester d. α-Phtalylamidophenylessigsäure. Sm. 99° (B. 37, 1689 C. 1904 [1] 1524).
 - 16) Phenylester d. α-Phtalylamidopropionsäure. Sm. 99° (M. 25, 778) C. 1904 [2] 1121).
 - 17) l-Naphtylamid d. 3,4,5-Trioxybenzol-l-Carbonsäure.
 (D.R P. 53315). *II, 1112.
 18) 2-Naphtylamid d. 3,4,5-Trioxybenzol-l-Carbonsäure.
 - *II, *1112*. (D.R.P. 53315). -
- 8) Methylester d. 5-Benzoxyl-1-Phenyl-1, 2, 3-Triazol-4-Carbonsäure. C17H18O4N8
- Sm. 104—105° (A. 335, 77 C. 1904 [2] 1230). C₁₇H₁₃O₄Br₃ 1) Dimethyläther d. 3, 6, 8-Tribrom-5,7-Dioxy-2-Phenyl-2, 8-Dihydro-1,4-Benzpyron. Sm. 174—175° u. Zers. (B. 37, 3167 C. 1904 [2] 1059).
- 5) Acetat d. γ -Oximido- β -Nitro- α -Keto- γ -[4-Nitrophenyl]- α -Phenyl-propan. Sm. 158° u. Zers. (A. 328, 230 O. 1903 [2] 999). C17H18O7N8
- 1) P-Brom-3-Methyl-1,4-Diphenylbipyrazol (B. 36, 528 C. 1903 [1] 642). $C_{17}H_{18}N_4Br$ 46) Inn. Anhydrid d. Chinolinphenacyloxim. Sm. 72°. HCl + H₂O, $C_{17}H_{14}ON_2$
 - (2HCl, PtCl₄), (HCl, AuCl₅), HBr (Ar. 240, 695 C. 1903 [1] 402). 47) Inn. Anhydrid d. Isochinolinphenacyloxim. Sm. 121°. HCl + H₂O, (2HCl, PtCl₄), (HCl, AuCl₈) (Ar. 240, 703 C. 1903 [1] 403).
- 5) 4,4'-Di[Methylcyanamidophenyl]keton. Sm. 236° (B. 37, 2673 C17H14ON4 C. 1904 [2] 443).
- δ_δ-Dibrom-γ-Keto-α_δ-Diphenyl-α-Penten. Sm. 163° u. Zers. (B. 36, 1498 C. 1903 [1] 1351). $C_{17}H_{14}OBr_{2}$
 - 2) Dibromdihydrocinnamylidenacetophenon. Sm. 104° (C. 1903 [2] 945).
- C₁₇H₁₄OBr₄ *1) $\alpha\beta\delta\varepsilon$ -Tetrabrom- γ -Keto- $\alpha\varepsilon$ -Diphenylpentan (C. 1903 [1] 399). C₁₇H₁₄O₂N₂ *10) 3-Keto-4-Benzoyl-5-Methyl-2-Phenyl-2, 3-Dihydropyrazol.
- 102°. Na (B. 36, 526 C. 1903 [1] 641). 3) 3,5-Di[Benzoylamido]pyrazol. Sm. 207—208° (B. 37, 3525 C. 1904 $C_{17}\mathbf{H}_{14}O_{2}\mathbf{N}_{4}$ [2] 1314).
- $C_{17}H_{14}O_2Br_2*2$) $\gamma\delta$ -Dibrom $\alpha\delta$ -Diphenyl α -Buten α -Carbonsäure. Sm. 180—181° (174°) (J. pr. [2] 68, 527 C. 1904 [1] 451; B. 37, 1124 C. 1904 [1] 1210; A. 336, 227 C. 1904 [2] 1733).

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C_{17}H_{14}O_8N_2 11) \alpha-Oxy-\alpha-[2-Nitrophenyl]-\beta-[2-Chinolyl]äthan.
                         α-Oxy-α-[2-Nitrophenyl]-β-[2-Chinolyl]äthan. Sm. 168°. HCl, (2HCl, HgCl<sub>2</sub>), (2HCl, PtCl<sub>4</sub>), (HCl, AuCl<sub>2</sub>) (B. 36, 1668 C. 1903 [2] 49).
  C<sub>17</sub>H<sub>14</sub>O<sub>8</sub>Br<sub>2</sub> 7) Trimethyläther d. ?-Dibrom-3,4,6-Trioxyphenanthren. Sm. 122 bis 123° (B. 35, 4407 C. 1903 [1] 342; B. 35, 4411 C. 1903 [1] 343).
                     6) 4-Acetoxylbenzol-3-Akrylsäure. Sm. 167-169 ° (B. 37, 4126 C. 1904
  C_{17}H_{14}O_4N_2
                     [2] 1735).

2) s-[3-Nitrophenyl] imido-\alpha-[3-Nitrophenyl] amido-\alpha\gamma-Pentadiën.

HBr (J. pr. [2] 70, 39 C. 1904 [2] 1235).

HBr (J. pr. [2] 70, 39 C. 1904 [2] 1235).
  C_{17}H_{14}O_4N_4
                         HBr (J. pr. [2] 70, 28 C. 1904 [2] 1234).
                     4) Verbindung (aus 5-Keto-1-Phenyl-4,5-Dihydro-1,2,3-Triazol-4-Carbon-
  saure). Sm. 168° (A. 335, 91 C. 1904 [2] 1231). C<sub>17</sub>H<sub>14</sub>O<sub>4</sub>Br<sub>2</sub> 2) Diacetat d. 3,5 - Dibrom - α, 4 - Dioxydiphenylmethan. (A. 334, 384 C. 1904 [2] 1052).
                                                                                                                Sm. 109°
                     3) \alpha-Benzoat d. ?-Brom-3,4-Dioxy-1-[\beta-Brom-\alpha-Oxypropyl] benzol-3,4-Methylenäther. Sm. 142—143° (\mathcal{O}. 1903 [1] 970).
                     1) γ-Keto-αε-Diphenyl-αδ-Pentadiën-?-Sulfonsäure. Sm. 140° u. Zers.
  C17H14O4S
                    1) γ-Keto-αε-Dipnenyi-αυ-rentanten-r-Sunonsaure. Sin. 140 a. 2018. Na + 4H<sub>2</sub>O (B. 36, 1493 C. 1903 [1] 1350).
3) α-[4-Methoxylphenyi]-β-[2-Oxy-3-Diazoanhydrid-4-Methoxylphenyi]akrylsäure. Zers. bei 145° (B. 35, 4408 C. 1903 [1] 343).
  C17 H14 O5 N.
  C17 H14 O5 N4
                         C 57,6 — H 4,0 — O 22,6 — N 15,8 — M. G. 354.
                    1) Amid d. \beta - Cyan-\alpha\gamma - Di[4-Nitrophenyl] propan - \beta - Carbonsäure. Sm. 230—231° (G. 32 [2] 360 C. 1903 [1] 629).
3) 2-Keto-5, 6-Dioxy-1-[3-Nitro-4-Dimethylamidobenzyliden]-1, 2-Di-
 C_{17}H_{14}O_6N_2
                        hydrobenzfuran. Sm. oberh. 250° (B. 37, 824 C. 1904 [1] 1152).
                        C 52,3 - H 3,6 - O 36,9 - N 7,2 - M. G. 390.
 C17H14O9N2
                    1) Di[4-Nitrobenzoat] d. αβη-Trioxypropan. Sm. 137° (A. 335, 285
                        C. 1904 [2] 1285).
                   1) \varepsilon-[3-Chlorphenyl]imido - \alpha -[3 - Chlorphenyl] amido - \alpha\gamma - Pentadiën. Sm. 109°. HCl (A. 336, 322 C. 1904 [2] 1149).
 \mathbf{C}_{17}\mathbf{H}_{14}\mathbf{N}_{2}\mathbf{Cl}_{2}
                   2) \varepsilon-[4-Chlorphenyl]imido - \alpha-[4-Chlorphenyl]amido - \alpha\gamma-Pentadiën.
                       Sm. 108-110° u. Zers. HCl (A. 333, 319 C. 1904 [2] 1149).
C_{17}H_{15}ON *20) isom. \gamma-Oximido-\alpha \varepsilon-Diphenyl-\alpha \delta-Pentadiën. Sm. 151° (55°) (C. 1903
                [1] 399).
*24) 2 - Oxy - 1 - [α-Amidobenzyl] naphtalin. (HCl, HgCl<sub>2</sub>), (2 HCl, PtCl<sub>4</sub>),
                  Pikrat (G. 33 [1] 2 C. 1903 [1] 924).
28) 4-Amidophenyl-[4-Oxy-1-Naphtyl]methan. Sm. 174—175°. HCl
                       (M. 23, 982 C. 1903 [1] 288).
                  29) 7-Oxy-2-Aethyl-4-Phenylchinolin. Sm. 251° (B. 36, 4018 U. 1904
                        11 293).
                  30) Methyläther d. 4-[4-Oxybenzyl] isochinolin. Fl. (2HCl, PtCl<sub>4</sub>) (A. 326, 292 C. 1903 [1] 929).
                 14) 5-Amido - 4 - Benzoyl-3-Methyl-1-Phenylpyrazol. Sm. 153°. HCl
C_{17}H_{15}ON_{9}
                       (B. 36, 525 C. 1903 [1] 641).
                  15) Monoacetylderivat d. 2-[\beta-2-Amidophenyläthenyl]benzimidazol. Sm. oberh. 285° (C. 1904 [1] 103).
                  16) Monoacetylderivat d. 2-[\beta-4-Amidophenyläthenyl]benzimidazol
                       (C. 1904 [1] 103)
C<sub>17</sub>H<sub>15</sub>ON<sub>5</sub>
                   3) \alpha - Oximido - 4, 4'-Di[Methylcyanamidophenyl]methan.
                       (B. 37, 2674 C. 1904 [2] 443).
C_{17}H_{18}OC1

    ε-Chlor-γ-Keto-αε-Diphenyl-α-Penten. Sm. 84-95° (B. 36, 2375)
    1903 [2] 495).

                   2) Hydrochlorid d. Dibenzalaceton (B. 37, 3288 C. 1904 [2] 1038).
                   1) Hydrobromid d. Dibenzalaceton. Sm. 100° (B. 36, 3537 C. 1903 [2]
C_{17}H_{15}OBr
                   2) isom. Hydrobromid d. Dibenzalaceton. Sm. 119-121° (B. 37, 3365

    C. 1904 [2] 1122).
    1) αβε-Tribrom-γ-Keto-αε-Diphenylpentan. Sm. 134—137° (B. 37, 3368 C. 1904 [2] 1123).

\mathbf{C}_{17}\mathbf{H}_{15}\mathbf{OBr}_{8}
C_{17}H_{16}O_2N 23) 2-Oxy-1-[\alpha-Amido-2-Oxybenzyl]naphtalin. HCl (G. 33 [1] 15
                     Methylenäther d. \gamma-[2-Methylphenyl]imido-\alpha-[3,4-Dioxyphenyl]-propen. Sm. 94—95° (B. 37, 1699 C. 1904 [1] 1497).
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- 25) Methylenäther d. γ -[3-Methylphenyl]imido- α -[3,4-Dioxyphenyl]-propen. Sm. 95° (B. 37, 1699 C. 1904 [1] 1497). $C_{17}H_{15}O_{2}N$
 - 26) Methylenäther d. γ-[4-Methylphenyl]imido-α-[3,4-Dioxyphenyl]-propen. Sm. 138° (B. 37, 1700 C. 1904 [1] 1497).
 27) Aethyläther d. 4-Oxy-1-Keto-3-Phenyl-1,2-Dihydroisochinolin.
 - Sm. 183° (B. 37, 1691 C. 1904 [1] 1524).
 - 28) Imid d. $\alpha\beta$ -Diphenylpropan- $\alpha\beta$ -Dicarbonsäure. (B. 33, 2009). *II, 1098. Sm. 162-1630
 - 29) 4-Methylphenylimid d. α-Phenyläthan-αβ-Dicarbonsäure. Sm. 138—139° (Soc. 85, 1367 C. 1904 [2] 1646).
- 20) 4-Oximido-5-Keto-3-Methyl-1-Diphenylmethyl-4, 5-Dihydro- $C_{17}H_{15}O_2N_3$ pyrazol. Sm. 182° u. Zers. $+ C_2H_6O$ (J. pr. [2] 67, 174 C. 1903 [1] 874).
 - 21) Aethylester d. 1,5-Diphenyl-1,2,3-Triazol-4-Carbonsäure. 134—135° (B. 35, 4048 C. 1903 [1] 169).
- γ-Keto-γ-[5-Acetylamido-2-Oxyphenyl]-α-Phenylpropen. Sm. 190° $C_{17}H_{15}O_8N$ (B. **37**, 2826 C. **1904** [2] 704).
 - 27) Dimethyläther d. 3-Phenyl-5-[3,5-Dioxyphenyl]isoxazol. Sm. 820
 - (83°) (B. 35, 3904 C. 1903 [1] 27; B. 36, 2301 C. 1903 [2] 577). 28) Phenylamidoformiat d. 1-[u-Oxyäthyl]benzfuran. Sm. 126° (B. 36, 2869 C. 1903 [2] 833).
- C 60,5 H 4,4 O 14,2 N 20,8 M. G. 337. 1) Amid d. Methyl-4- $[\alpha$ -Cyan-4-Nitrobenzyliden]amidophenylamido- $C_{17}H_{15}O_8N_5$ essigsäure. Sm. 229° (B. 37, 2638 C. 1904 [2] 519).
- *1) Aethylester d. α-Benzoyl-α-[4-Chlorphenyl]essigsäure. $C_{17}H_{15}O_8Cl$ (J. pr. [2] 67, 387 (J. 1903 [1] 1357).
- 16) Aethylather d. α-Oxy-γ-Keto-γ-Phenyl-α-[4-Nitrophenyl]propen. $C_{17}H_{15}O_4N$ Sm. 89-90° (Soc. 85, 463 C. 1904 [1] 1079, 1438).
 - 17) 5,6-Dioxy-2-Keto-1-[4-Dimethylamidobenzyliden]-1,2-Dihydrobenzfuran. Sm. 203° (281°) (B. 29, 2434; B. 37, 823 C. 1904 [1] 1151). - *III, *532*.
- 3) α -Acetylphenylhydrazid d. Phenylimidoessigsäure-2-Carbonsäure. C17H15O4N8 Sm. 268° (A. 332, 238 C. 1904 [2] 38).
- C 57,8 H 4,2 O 18,1 N 19,8 M. G. 353. $C_{17}H_{15}O_4N_5$ 1) s-[2,4-Dinitrophenyl]imido- α -Phenylhydrazido- $\alpha\gamma$ -Pentadiën. Sm.
- 140° u. Zers. (A. 333, 327 C. 1904 [2] 1150).

 1) Dimethyläther d. 3-Brom-7, 8-Dioxy-2-Phenyl-2, 3-Dihydro-1,4-Benzpyron. Sm. 110° (B. 36, 4243 C. 1904 [1] 382). $C_{17}H_{15}O_4Br$
- 2) α-Benzoat d. α-Oxyäthyl-3-Brom-4-Oxyphenylketon-4-Methyläther. Sm. 116° (B. 37, 1548 C. 1904 [1] 1437).
- 10) 22,6-Dimethyläther d. 3-Oximido-6-Oxy-2-[2-Oxyphenyl]-2,3-Di- $C_{17}H_{15}O_5N$ hydro-1,4-Benzpyron. Sm. 164-166° u. Zers. (B. 37, 2348 C. 1904 [2] 230).
 - 11) 2¹, 6-Dimethyläther d. 3-Oximido-6-Oxy-2-[3-Oxyphenyl]-2, 3-Dihydro-1, 4-Benzpyron. Sm. 153—154° u. Zers. (B. 37, 958 C. 1904)
 - [1] 1160). 12) 24,6-Dimethyläther d. 3-Oximido-6-Oxy-2-[4-Oxyphenyl]-2,3-Dihydro-1,4-Benzpyron. Sm. 157-158° u. Zers. (B. 37, 783 C. 1904
 - 13) 22,7-Dimethyläther d. 3-Oximido-7-Oxy-2-[2-Oxyphenyl]-2,3-Dihydro-1,4-Benzpyron. Sm. 195° u. Zers. (B. 37, 4157 C. 1904 [2] 1658).
 - 14) 28,7-Dimethyläther d. 3-Oximido-7-Oxy-2-[3-Oxyphenyl]-2,3-Dihydro-1,4-Benzpyron. Sm. 160° u. Zers. (B. 37, 4160 C. 1904 [2] 1658).
 - 15) 24,7-Dimethyläther d. 3-Oximido-7-Oxy-2-[4-Oxyphenyl]-2,3-Dihydro-1,4-Benzpyron. Sm. 170° u. Zers. (B. 37, 4162 C. 1904 [2] 1659).
 - 16) 5,7-Dimethyläther d. 3-Oximido-5,7-Dioxy-2-Phenyl-2,3-Dihydro-1,4-Benzpyron. Sm. 175—177° u. Zers. (B. 37, 2804 C. 1904 [2] 712)-17) 7,8-Dimethyläther d. 3-Oximido-7,8-Dioxy-2-Phenyl-2,3-Dihydro-
 - 1,4-Benzpyron. Sm. 166° u. Zers. (B. 37, 2807 C. 1904 [2] 713).
- 9) Acetat d. α -Acetyl- α -Phenyl- β -[3-Nitro-2-Oxybenzyliden]hydrazin. $C_{17}H_{15}O_5N_3$ Sm. 156° (150°) (A. 305, 190; B. 37, 3913 C. 1904 [2] 1593; B. 37, 3931 C. 1904 [2] 1596).

- $C_{17}H_{15}O_5N_3$ 10) Acetat d. α -Acetyl- α -Phenyl- β -[5-Nitro-2-Oxybenzyliden] hydrazin. Sm. 166—167° (165—166°) (A. 305, 188; B. 37, 3913 C. 1904 [2] 1593; B. 37, 3931 C. 1904 [2] 1595).
 - Acetat d. α-Acetyl-α-Phenyl-β-[3-Nitro-4-Oxybenzyliden] hydrazin
 (B. 37, 3932 C. 1904 [2] 1596).
- 2) 9-Brom-1,3,8-Tribrom-2,4,5,7-Tetramethylfluoron (M. 25, 681 $C_{17}H_{15}O_5Br$ C. 1904 [2] 1145).
- $C_{17}H_{15}O_6N$ 5) Benzoylderivat d. Säure C₁₀H₁₁O₅N. Sm. 138° (A. 325, 338 C. 1903 [1] 771).
- *1) Papaverinsäuremethylbetaïn. $(4 + 4HCl, PtCl_4 + 8H_2O)$, (HCl, AuCl₃ + H₂O) (M. 24, 693 C. 1903 [2] 1281; M. 24, 714 C. 1904 $C_{17}H_{15}O_7N$ [1] 2Ĭ8).
- $C_{17}H_{15}N_2Cl_3$ 1) Isochinolin + $\beta\beta\gamma$ Trichlor α Phenylamidopropan. + AuCl₃ (Ar. 240, 706 C. 1903 [1] 403; Ar. 241, 120 C. 1903 [1] 1023).
- 2) 5-Chlor-4-[2-Methylphenyl]azo-3-Methyl-1-Phenylpyrazol. Sm. 970 $C_{17}H_{15}N_4Cl$ (D.R.P. 153861 C. 1904 [2] 680).
- 17) 5-Keto-3-Aethyl-1,4-Diphenyl-4,5-Dihydropyrazol. Sm. 1970 (B. 36, C₁₇H₁₈ON₂ 2244 C. 1903 [2] 435).
 - 18) 5-Keto-1-Diphenylmethyl-3-Methyl-4,5-Dihydropyrazol. Sm. 1950
 - (J. pr. [2] 67, 173 C. 1903 [1] 874).

 19) 3-Keto-2-[4-Dimethylamidobenzyliden]-2,3-Dihydroindol. Sm. 226
 - bis 227° (C. 1903 [1] 34).
 20) 2-Acetylamido-3,7-Dimethylakridin. Sm. 258° (270°) (B. 36, 1026
- C. 1903 [1] 1269; Soc. 85, 529 C. 1904 [1] 676, 1525).

 4) 5-Keto-4-[2-Methylphenyl]azo-3-Methyl-1-Phenyl-4, 5-Dihydropyrazol. Sm. 183° (D.R.P. 153861 C. 1904 [2] 680).

 5) 5-Keto-4-[4-Methylphenyl]azo-3-Methyl-1-Phenyl-4, 5-Dihydro- $C_{17}H_{16}ON_4$
- 5. Keto-4-[4-Methylphenyl]azo-3-Methyl-I-Phenyl-4, 5-Dinydropyrazol. Sm. 136—137° (Soc. 83, 1124 C. 1903 [2] 23, 791).
 Dihydrochlorid d. Dibenzalaceton (B. 36, 1473 C. 1903 [1] 1348; B. 36, 2376 C. 1903 [2] 495; B. 36, 3543 C. 1903 [2] 1369; B. 37, 3290 C. 1904 [2] 1040).
 Dihydrobromid d. Dibenzalaceton (B. 36, 3539 C. 1903 [2] 1369).
 isom. Dihydrobromid d. Dibenzalaceton. Sm. 124—126° u. Zers. (B. 36, 3541 C. 1903 [2] 1369; B. 37, 3364 C. 1904 [2] 1122).
 I-Methylamida S. Dimethylamida 9 10 Anthreship on (I) R. P. C₁₇H₁₆OCl₂
- C₁₇H₁₈OBr₂
- $C_{17}H_{18}O_2N_2$ 29) 1 Methylamido 8 Dimethylamido 9,10 Anthrachinon (D. R. P.
 - 144634 C. 1903 [2] 751).
 30) Methyläther d. 4-0xy-3-Keto-1-Methyl-2,5-Diphenyl-2, 3-Dihydropyrazol. Sm. 155° (B. 36, 1137 C. 1903 [1] 1254).
 - 31) Aethylester d. Azobenzol-4-Akrylsäure. Sm. 101-102° (C. r. 135,
- 1118 C. 1903 [1] 286).

 C₁₇H₁₈O₂Br₂ *3) Benzoat d. 2,6-Dibrom-3-Oxy-4-Isopropyl-1-Methylbenzol. Sm. 80 bis 81° (M. 24, 72 C. 1903 [1] 767).
- $C_{17}H_{16}O_{8}N_{2}$ 24) Acetat d. α -Acetyl- α -Phenyl- β -[4-Oxybenzyliden]hydrazin. Sm. 148 $^{\circ}$ (B. 36, 3975 C. 1904 [1] 163).
- 25) Di [Methylphenylamid] d. Mesoxalsäure. Sm. 172° (Soc. 83, 43 C₁₇H₁₆O₅N₄
- C. 1903 [1] 442).
 9) Aethylester d. β-Phenylazo-β-Phenylhydrazon-α-Ketoäthan-α-Carbonsäure. Sm. 144—145° (Bl. [3] 31, 96 C. 1904 [1] 581).
- C₁₇H₁₆O₄N₂ *6) αβ-Di[Benzoylamido]propionsäure. Sm. 195° (J. pr. [2] 70, 181 C. 1904 [2] 1397).
 - 15) Aethylester d. αβ-Dibenzoylhydrazin-α-Carbonsäure. Sm. 130° (J. pr. [2] 70, 276 C. 1904 [2] 1544).
 16) Acetylderivat d. Verb. C₁₆H₁₄O₈N₂. Zers. oberh. 265° (B. 37, 371)
- C. 1904 [2] 1565). 3) 8-Nitro-1, 4, 5-Tri[Methylamido]-9,10-Anthrachinon (D.R.P. 144634 O. 1903 [2] 751). $C_{17}H_{16}O_4N_4$
- 4) 3,5-Diketo-l-Phenylhexahydro-l,2,4-Triazin-4-Phenylamidoessigsäure. Sm. 176° (B. 36, 3890 C. 1904 [1] 28).
- C₁₇H₁₆O₄Br₂ 1) Verbindung (aus ?-Brom-8-Oxy-5,7-Dimethylfluoron). Sm. 99-100° (M. 25, 330 C. 1904 [1] 1495).
- C17H16O4S 1) Cinnamylidenacetophenonhydrosulfonsäure. K (B. 37, 4053 U. 1904 [2] 1649).
- C₁₇H₁₆O₅N₂ 13) β-Keto-αα-Di[4-Nitrobenzyl] propan. Sm. 108,5-109,5 ° (B. 37, 1993 C. 1904 [2] 26).

- $C_{17}H_{16}O_5N_2$ 14) β -Keto- $\alpha\gamma$ -Di[4-Nitrobenzyl]propan. Sm. 136—138° (B. 37, 1993) C. 1904 [2] 26). 15) Phenylmonamid d. β -[2-Nitrophenyl]propan- $\alpha\gamma$ -Dicarbonsäure. 10) Finenyimonamia d. β-[2-initrophenyi]propan-αγ-Dicarbonsăure. Fl. (B. 36, 2674 C. 1903 [2] 948).
 16) Phenyimonamid d. Iso-β-[2-initrophenyi]propan-αγ-Dicarbonsăure. Sm. 129° (B. 36, 2674 C. 1903 [2] 948).
 1) Dibenzalacetonhydrosulfat (B. 36, 1481 C. 1903 [1] 1349). C 56,7 - H 4,4 - O 31,1 - N 7,8 - M. G. 360.
 1) Distribution d. 3.2 (Printing A. A. C. 1903 [1] 1349. C17H16O5S $C_{17}H_{16}O_7N_2$ 1) Diäthyläther d. 3,3'-Dinitro-4,4'-Dioxydiphenylketon. Sm. 132° (G. 34 [1] 384 C. 1904 [2] 111). 2) 3-[6-Oxy-3-Methylcarboxyphenylamid] d. 4-Oxybenzol-1-Carbon-säure-3-Amidoessigsäure? Sm. noch nicht bei 280° (A. 325, 334 C. 1903 [1] 771). C 45.5 - H 3.6 - O 32.1 - N 18.8 - M. G. 448. $C_{17}H_{16}O_9N_6$ 1) 3,5,3',5'-Tetranitro-4,4'-Di[Dimethylamido]diphenylketon. 202° (G. 34 [1] 383 C. 1904 [2] 111).
 5) Jodmethylat d. 2-Benzylchinolin. Zers. bei 220° (B. 37, Zers. bei 220° (B. 37, 3400 C17 H16 NJ G. 1904 [2] 1318).
 6) Jodmethylat d. 1-Benzylisochinolin. Sm. 247-248° (B. 37, 3398) C. 1904 [2] 1317). 7) Jodmethylat d. 4-Benzylisochinolin. Sm. 1880 (A. 326, 295 C. 1903 [1] 929). 8) Jodmethylat d. Base $C_{16}H_{18}N$ (aus Morphin) (B. 34, 1163). — *III, 668. 3) Benzyläther d. 5-Merkapto-3-Methyl-1-Phenylpyrazol. Sd. 246 20 C17H16N2S (A. 331, 237 C. 1904 [1] 1221). $C_{17}H_{17}ON$ *17) d-1-neo-1-Benzoylamido-2-Methyl-2,3-Dihydroinden. Sm. 169° (Soc. 83, 917 C. 1903 [2] 505; Soc. 83, 928 C. 1903 [2] 505) 25) γ-Benzoylamido-α-Phenyl-α-Buten. Sm. 136-1370 (B. 36, 3002 C. 1903 [2] 949). 26) d-l-1-Benzoylamido-2-Methyl-2, 3-Dihydroinden. Sm. 151° (Soc. 83, 917 C. 1903 [2] 505; Soc. 83, 927 C. 1903 [2] 505). 27) γ-Oximido-αs-Diphenyl-α-Penten. Sm. 95—105° (A. 330, 234 C. 1904) 1] 945). 28) Methyläther d. 3,5-Dimethyl-2-[4-Oxyphenyl]indol. Sm. 134° (B. 37, 871 C. 1904 [1] 1154). 29) Methyläther d. 3,7-Dimethyl-2-[4-Oxyphenyl]indol. Sm. 1270 (B. 37, 870 C. 1904 [1] 1154). 30) 2-Benzoylmethyl-1,2,3,4-Tetrahydroisochinolin. Sm. 100—101° (B. 36, 1161 C. 1903 [1] 1186).
 31) 4-Methylphenylamid d. Phenylisocrotonsäure. Sm. 149° (B. 37, 2001 C. 1904 [2] 24). 8) γ -Phenylsemicarbazon- α -Phenyl- α -Buten. Sm. 195° (B. 37, 3183) C17H17ON8 C. 1904 [2] 991). $C_{17}H_{17}O_2N$ *21) Apomorphin. + $(C_2H_5)_2O$ (B. 35, 4383 C. 1903 [1] 337; C. 1903 [2] 41) γ -[3-Oxyphenyl]imido- α -Oxy- α -Phenyl- α -Penten. Sm. 139° (B. 36, 4018 *C*. **1904** [1] 293). 42) 4-Propionylamido-3-Methyldiphenylketon. Sm. 1280 (Soc. 85, 593 C. 1904 [1] 1554). 43) 6-Propionylamido-3-Methyldiphenylketon. Sm. 99° (Soc. 85, 596 C. 1904 [1] 1554). 44) Benzoylphenylamid d. Isobuttersäure. Sm. 83° (Bl. [3] 31, 626 Q. 1904 [2] 98). $C_{17}H_{17}O_2N_3$ 10) γ -Phenylsemicarbazon- α -[2-Oxyphenyl]- α -Buten + H_2O . Sm. 183 bis 184° u. Zers. (B. 37, 3184 C. 1904 [2] 991). 11) Benzylidenhydraeid d. α -Benzylamidopropionsäure. Sm. 194°
 - 1) 4-Phenylhydroxylamidoazo-3-Keto-2-Phenyl-1,5-Dimethyl-2,3-Dihydropyrazol. Sm. 105° u. Zers. (A. 328, 70 C. 1903 [2] 249).
 40) Methylenäther d. 6-Benzoylamido-3,4-Dioxy-1-Propylbenzol. $C_{17}H_{17}O_{3}N$ Sm. 151° (Ar. 242, 89 C. 1904 [1] 1007).

(J. pr. [2] 70, 143 C. 1904 [2] 1394). C 63,2 — H 5,2 — O 9,9 — N 21,7 — M. G. 323.

 $C_{17}H_{17}O_2N_5$

41) 6-Aethyläther d. 4-Oximido-6-Oxy-2-Phenyl-2,3-Dihydrobenzpyran. Sm. 185—186° (B. 33, 1484). — *III, 559.

- 42) Aethylester d. 4-Benzoyl-2-Methylphenylamidoameisensäure. $C_{17}H_{17}O_8N$ Sm. 88° (Soc. 85, 594 C. 1904 [1] 1554). 2-Benzoyl-4-Methylphenylamidoameisensäure. 43) Aethylester d. Sm. 58° (Soc. 85, 596 C. 1904 [1] 1554). 44) Phenylamidoformiat d. 1-[α-Oxyäthyl]-1, 2-Dihydrobenzfuran. Sm. 73° (B. 36, 2871 C. 1903 [2] 833). $C_{17}H_{17}O_8N_3$ 6) d-γ-Semicarbazon-αγ-Diphenylbuttersäure. Sm. 107-110° (Soc. 85, 1369 C. **1904** [2] 1647). 7) i-γ-Semicarbazon-αγ-Diphenylbuttersäure. Sm. 189-191° (Soc. 85, 1364 C. 1904 [2] 1646). 8) Phenylamid d. Benzoylamidoacetylamidoessigsäure. Sm. 238—240 (J. pr. [2] 70, 80 C. 1904 [2] 1033).

 9) Di[Methylphenylamid] d. Oximidomalonsäure. Sm. 109°. + CH₄O (Soc. 83, 42 C. 1903 [1] 442). 10) isom. Di[Methylphenylamid] d. Oximidomalonsäure. (Soc. 83, 43 C. 1903 [1] 442; C. 1904 [1] 1555).
 11) Di[2-Methylphenylamid] d. Oximidomalonsäure. Sm Sm. 1920 Sm. 111°. K (Soc. 83, 39 C. 1903 [1] 441). 12) Di[4-Methylphenylamid] d. Oximidomalonsäure. Sm. 170-171°. K, Ag (Soc. 83, 36 C. 1903 [1] 73, 441). 13) α-Phenylhydrazid d. Phenylimidoessigsäure-2-Carbonsäureäthylester. Sm. 140—141° u. Zers. (4. 332, 236 C. 1904 [2] 38). 14) Benzoylhydrazid d. α-Benzoylamidopropionsäure. Sm. 180-184° (J. pr. [2] 70, 144 C. 1904 [2] 1394). C₁₇H₁₇O₄N *14) 4-Aethoxylphenylamid d. 2-Acetoxylbenzol-1-Carbonsäure. Sm. 132° (B. 37, 3976 C. 1904 [2] 1605). 25) Aethyläther d. β-Nitro-γ-Keto-α-Oxy-αγ-Diphenylpropan. Sm. 119°
 (4. 328, 240 C. 1903 [2] 999). 26) Benzoylepinephrin. H₂SO₄, Pikrat (H. 28, 318; 29, 105; B. 36, 1839). - *III, *667.* 27) Diacetat d. $\alpha\beta$ -Dioxy- α -Phenyl- β -[2-Pyridyl]äthan. Sm. 36—37° (B. 36, 121 C. 1903 [1] 470).

 5) Aethylester d. α -Phenyl- β -[3-Nitrobenzyliden]hydrazidoessig-C₁₇H₁₇O₄N₃ säure. Sm. 86° (B. 36, 3884 C. 1904 [1] 27). 6) Di[Methylphenylamid] d. Nitromalonsäure. Sm. 156° u. Zers. (C. 1904 [1] 1555). C₁₇H₁₇O₅N 12) Dimethyläther d. γ -Keto- α -Dioxy- γ -Phenyl- α -[4-Nitrophenyl]-propan. Sm. 91° (B. 37, 1150 C. 1904 [1] 1267).
- - 13) Trimethyläther d. α -[4-Oxyphenyl]- β -[2-Nitro-3,4-Dioxyphenyl]-
 - äthen. Sm. 156° (B. 35, 4404 C. 1903 [1] 342).
 14) α-[4-Methoxylphenyl]-β-[2-Amido-3-Oxy-4-Methoxylphenyl]akrylsäure. Sm. 150-152° (B. 35, 4408 C. 1903 [1] 342).
- $\mathbf{C}_{17}\mathbf{H}_{17}\mathbf{O}_5\mathbf{N}_5$ C 55,0 — H 4,6 — O 21,5 — N 18,9 — M. G. 371.
- 1) Amid d. I-[Methyl-a-Carboxyäthylamido]-4-[2,4-Dinitrobenzy-liden]amidobenzol. Sm. 235—238° (B. 36, 763 C. 1903 [1] 963). C₁₇H₁₇N₂Br 4) Bromphenylat d. 2-Phenylamido-1,2-Dihydropyridin.
- (J. pr. [2] 69, 109, 123 C. 1904 [1] 814). $C_{17}H_{18}O_2N_2*11$) 3, 6 - Di[Dimethylamido] xanthon. Sm. 240°. (2 HCl, PtCl₄) (B. 37,
- 204 C. 1904 [1] 664).
 - *23) Di[4-Methylphenylamid] d. Malonsäure. Sm. 250° (Soc. 83, 36 C. 1903 [1] 441).
 - *38) Aethyläther d. Benzoylimido-4-Methylphenyloxymethan. bis 78° (Am. 32, 367 C. 1904 [2] 1507).
 - *39) α -Acetyl- $\alpha\beta$ -Di[4-Methylphenyl]harnstoff. Sm. 148° (B. 37, 3119 C. 1904 [2] 1317).
 - *40) αβ-Dibenzoyl-α-Propylhydrazin. Sm. 131° (J. pr. [2] 70, 279 C. 1904 [2] 1545). 43) Di[4-Acetylphenylamido] methan. Sm. 188° (B. 37, 397 C. 1904 [1] 658).
 - 44) Dioxim d. Dimethylphenyl m Biscyklohexenon. Sm. 103-105°
 - (B. 36, 2146 C. 1903 [2] 369).

 45) isom. Dioxim d. Dimethylphenyl-m-Biscyklohexenon. bis 193° (B. 36, 2147 C. 1903 [2] 369).

- $C_{17}H_{18}O_2N_2$ 46) $\alpha\beta$ -Diacetyl- α -Diphenylmethylhydrazin. Sm. 197—198° (J. pr. [2] **67**, 169 *C.* 1903 [1] 873).
 - 47) α -[4-Methylphenyl]imido- α -[Methyl-4-Methylphenyl]amidoessigsäure. Zers. bei 80-81° (Soc. 85, 997 C. 1904 [2] 321, 831). 48) Methylester d. 4-Methylphenylimido-4-Methylphenylamidoessig-
 - säure. Sm. 103°. (2HCl, PtCl₄) (Soc. 85, 994 C. 1904 [2] 831)
 - Methylester d. 2-[α-Dimethylamidobenzyliden amidobenzol-1-Carbonsäure. Sm. 109°. Pikrat (B. 37, 2681 C. 1904 [2] 521).
 - 50) 4 Methylphenylamid d. α Benzoylamidopropionsäure. Sm. 172 bis 175° (J. pr. [2] 70, 147 C. 1904 [2] 1894).
 51) Di[2-Methylphenylamid] d. Malonsäure. Sm. 193° (Soc. 83, 39)
 - C. 1903 [1] 441).
- $C_{17}H_{18}O_2N_4$ 10) α -Semicarbazido- γ -[8-Oxyphenyl]imido- α -Phenyl- α -Buten. Sm. 124° (B. 36, 2452 C. 1903 [2] 670).
- C₁₇H₁₈O₂Br₂ 2) 3, 3'-Dibrom-4, 4'-Dioxy-2, 5, 2', 5'-Tetramethyldiphenylmethan. Sm. 152—153° (B. 36, 1890 C. 1903 [2] 291; B. 37, 1471 C. 1904 [1] 1518)
- (B. 36, 4079 C. 1904 [1] 268).
 - 18) Aethyläther d. N. Formyl-4'-Formylamido-4-Oxy-2-Methyldiphenylamin. Sm. 140° (B. 36, 3860 C. 1904 [1] 91).
 - 19) 4-Methyläther-α-Aethyläther d. α-Benzoylimido-α-[3-Oxyphenyl]amido-u-Oxymethan. Sm. 66-67° (Am. 32, 367 C. 1904 [2] 1507).
 - 20) Phenylamid d. a-Phenylamidoformoxylbuttersäure. Sm. 153-1540 (Bl. [3] 29, 126 C. 1903 [1] 564).
 - 21) Phenylamid d. a-Phenylamidoformoxylisobuttersäure. bis 156° (Bl. [3] 29, 127 C. 1903 [1] 564).
- 5) α -[3-Nitrobenzyliden]amido- β -Aethyl- α -Benzylharnstoff. Sm. 106° C17H18O8N4 (B. 37, 2326 C. 1904 [2] 312).
 - 6) s-Di[2-Methylphenylamidoformyl]harnstoff. Sm. 190° (Soc. 81, 1571 C. 1903 [1] 158).
- 2) α -[4-Methylphenyl]sulfon γ -Keto- α -Phenylbutan (Am. 31, 178) C17H18O8S C. 1904 [1] 876). — *III, 119.
- 26) Dimethyläther d. Di[4-Oxybenzoylamido]methan. Sm. 206-207,5 $C_{17}H_{18}O_4N_2$ (B. 37, 4099 C. 1904 [2] 1726).
 - 27) Propyl-2, 4, 6-Trioxy-5-Phenylazo-3-Methylphenylketon. Sm. 1820 (A. 329, 339 C. 1904 [1] 801).
 - 28) Methylester d. β-Nitro-γ-Phenylamido-γ-Phenylbuttersäure. Sm. 122° (A. 329, 254 C. 1904 [1] 31).
 29) Di[Methylphenylamid] d. Dioxymalonsäure. Sm. 184° (C. 1904 [1]
- 1555)3) $\alpha\beta$ -Di[β -Phenylureïdo] propionsäure. Sm. 214° u. Zers. (B. 37, 344) C₁₇H₁₈O₄N₄
- C. **1904** [1] 646). C17H18O48
 - Methylester d. β-[4-Methylphenyl]sulfon-β-Phenylpropionsäure. Sm. 156° (Am. 31, 173 C. 1904 [1] 876).
 Aethylester d. β-Phenylsulfon-β-Phenylpropionsäure. Sm. 139°
- (Am. 31, 174 C. 1904 [1] 876). 5) Verbindung (aus Oximidocampher u. 3-Nitrobenzoylchlorid). Sm. 136 C17H18O5N2
 - bis 137° (Soc. 83, 533 C. 1903 [1] 1136, 1353).
 6) isom. Verbindung (aus Oximidocampher u. 3-Nitrobenzoylchlorid).
 Sm. 152° (Soc. 83, 534 C. 1903 [1] 1136, 1353).
- 5) 3, 3'- Dinitro 4, 4'- Di [Dimethylamido] diphenylketon. Sm. 150° (G. 34 [1] 386 C. 1904 [2] 111). $C_{17}H_{18}O_5N_4$
 - 6) Diphenylcarbaziddiessigsäure. Sm. 235° u. Zers. (B. 36, 3889 C. 1904 [1] 28).
- C₁₇H₁₈O₆N₂ *4) α'-Nitro-α-[3-Nitrobenzoyl] campher. Sm. 175° u. Zers. (Soc. 83, 541 C. 1903 [1] 1354).
 - 5) α-Nitro-α'-[3-Nitrobenzoyl] campher. Sm. 112—113° (Soc. 83, 541 C. 1903 [1] 1354).
- 2) Dibenzylidenacetonbishydrosulfonsäure. $K_2 + 3\frac{1}{2}H_2O$ (B. 37, 4054) C17H18O7S2 C. 1904 [2] 1649).

C17 H19 ON

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1) Chloräthylat d. d-2-Propyl-1-Benzylhexahydropyridin (Ch. d. N-C₁₇H₁₈NCl Benzylconiin). 2 + PtCl₄ (B. 37, 3632 C. 1904 [2] 1510).

2) isom. Chloräthylat d. d-2-Propyl-1-Benzylhexahydropyridin. 2 + PtCl₄ (B. 37, 3632 C. 1904 [2] 1510).

2) Jodmethylat d. 9-Dimethylamidophenanthren. Sm. 217° u. Zers.

 $C_{17}H_{18}NJ$ (B. 36, 2516 C. 1903 [2] 507).

 2) Chlormethylat d. 5 - Phenylamido - 3 - Methyl - 1 - Phenylpyrazol.
 2 + PtCl₄, + AuCl₃ (B. 36, 3276 C. 1903 [2] 1189).
 2) Jodmethylat d. 5-Phenylamido-3-Methyl-1-Phenylpyrazol. Sm. 174° C₁₇H₁₈N₈Cl

 $C_{17}H_{18}N_3J$ (B. 34, 726; B. 36, 3276 C. 1903 [2] 1189).

29) y-Benzoylamidobutylbenzol. Sm. 108° (B. 36, 3000 C. 1903 [2] 949). 30) Methylphenylamid d. dl- β -Phenylisobuttersäure. (Soc. 85, 445 C. 1904 [1] 1445). 31) 4 - Methylphenylamid d. d1 - β - Phenylisobuttersäure.

(Soc. 85, 445 C. 1904 [1] 1445).

32) 4-Methylphenylamid d. d- β -Phenylisobuttersäure. Sm. 115—116° (Soc. 85, 446 C. 1904 [1] 1445).

33) α -Phenyläthylamid d. β -Phenylpropionsäure. Sm. 89° (B. 37, 2704) C. 1904 [2] 518).

8) Methylhydroxyd d. 5-Phenylamido-3-Methyl-1-Phenylpyrazol. C17 H19 ON8 Salze siehe (B. 36, 3276 C. 1903 [2] 1189).

1) α-Chlorbenzylidencampher. Sm. 100° (Soc. 83, 104 C. 1903 [1] 233. C17H19OC1 458).

*2) d-2-Brombenzylidencampher. Sm. 105° (C. r. 136, 71 C. 1903 $C_{17}H_{19}OBr$ [1] 459).

*3) d-4-Brombenzylidencampher. Sm. 129-130° (C. r. 136, 71 C. 1903 [1] 459).

4) i-α-Brombenzylidencampher. Sm. 56° (C. r. 132, 1574). — *III, 388. $C_{17}H_{19}O_2N$ *19) Aethylester d. Dibenzylamidoameisensäure. Sd. 216 $^0_{28}$ (B. 36, 2288

C. 1903 [2] 563). 43) Aethyläther d. 4-Dimethylamido-3'-Oxydiphenylketon. Sm. 90°

(D.R.P. 65952). — *III, 153. 44) Phenylamidoformiat d. γ -Oxy- α -Phenylbutan. Sm. 113° (B. 37, 2314 C. 1904 [2] 217).

45) Phenylamidoformiat d. β -Oxy- α -Phenyl- β -Methylpropan. Sm. 96° (B. **37**. 1723 C. **1904** [1] 1515).

 $C_{17}H_{10}O_2N_3$ 11) Phenylamid d. 4-Oxy-5-Isopropyl-2-Methylphenylazoameisensäure. Sm. 179—180° u. Zers. (A. 334, 194 C. 1904 [2] 835). 12) Di[Methylphenylamid] d. Amidomalonsäure. Sm. 108° (C. 1904

1] 1555).

[1] 1000].

13) Verbindung (aus d. isom. Di[Methylphenylamid] d. Oximidomalonsäure oder C₁₇H₁₇O₂N₃). Sm. 185—186° (*C.* 1904 [1] 1555). C 62,8 — H 5,8 — O 9,8 — N 21,5 — M. G. 325.

1) β-Methyl-α-Phenylhydrazid d. α-Oximido-β-Phenylhydrazon-buttersäure. Sm. 210° (Λ. 328, 69 C. 1903 [2] 249).

*1) α-Jod-α-Benzoyleampher (Soc. 83, 542 C. 1903 [1] 1354). $C_{17}H_{19}O_2N_5$

 $C_{17}H_{19}O_{2}J$ *9) Morphin. Ditartrat (C. 1903 [1] 525). $C_{17}H_{19}O_8N$

*15) 4-Naphtylmonamid d. mal. Pentan- $eta\delta$ -Dicarbonsäure. Sm. 151 bis

152° (Bl. [3] 29, 1019 C. 1903 [2] 1315).
33) 1-Aethyläther d. 4-[Acetyl-2-Oxybenzyl]amido-1-Oxybenzol. Sm. 101° (Ar. 240, 683 C. 1903 [1] 395).

34) γ-Phenylamidoformiat d. γ-Oxy-α-[2-Oxyphenyl] butan. Sm. 90° (B. 36, 2872 C. 1903 [2] 833).

35) α -Phenylamidoformiat d. 4-Oxy-1-[α -Oxyäthyl]benzol-4-Aethyläther. Sm. 81° (B. 36, 3594 C. 1903 [2] 1366).

36) Methylphenylamidoformiat d. 3,4-Dioxy-1-Propylbenzol. Sm. 110° (C. r. 138, 425 C. 1904 [1] 798).

9) Aethylester d. αγ-Diphenylsemicarbazidoessigsäure. Sm. 160° (B. 36, 3886 C. 1904 [1] 27). C 59,8 — H 5,6 — O 14,1 — N 20,5 — M. G. 341. $C_{17}H_{19}O_{8}N_{8}$ C17 H19 O8 N5

Phenylamid d. β-Phenylureïdoacetylamidomethylamidoameisensäure. Sm. 222° u. Zers. (J. pr. [2] 70, 258 C. 1904 [2] 1464).

Phenylhydrazid d. β-Phenylureidoacetylamidoessigsäure. Sm. 139°
 Lers. (J. pr. [2] 70, 257 C. 1904. [2] 1464).

- $C_{17}H_{19}O_4N$ *6) α' - Nitro - α - Benzoyleampher. Sm. 225 ° (Soc. 83, 539 C. 1903 [1] · 9) α - Nitro - α'- Benzoylcampher. Sm. 110° (Soc. 83, 539 C. 1903 [1] 1354). 10) Aethylester d. 2-Keto-5-Acetyl-4-Methyl-6-Phenyl-1,2,3,4-Tetrahydropyridin-3-Carbonsäure. Sm. 1560 (B. 36, 2189 C. 1903 [2] 569). Verbindung (aus d. γ-d-Campherdioximmonobenzoat). Sm. 112° (Soc. 85, 912 C. 1904 [2] 598).
 Diäthylester d. δ-Keto-δ-Phenyl-β-Buten-αβγ-Tricarbonsäure. Sm. C17H19O4N3 C17H19O6N 137° (Soc. 75, 785). — *II, 1200. C17 H19 N2S2 1) Methyläther d. α-Phenylamidothioformylimido-α-[Methyl-4-Methylphenyl]amido - α - Merkaptomethan. Sm. 124°. HJ (Am. 30, 175) C. 1903 [2] 872). 2) Methyläther d. α -[β -2-Methylphenylthioureïdo]- α -[2-Methylphenyl]imido- α -Merkaptomethan. Sm. 122—123° (Am. 30, 182 C. 1903 [2] 873). 3 Aethyläther d. α-[β-Phenylthioureïdo]-α-[2-Methylphenyl]imido-α-Merkaptomethan. Sm. 117—118° (Am. 30, 180 C. 1903 [2] 873).
 4) Aethyläther d. α-[β-2-Methylphenylthioureïdo]-α-Phenylimido-α-Merkaptomethan. Sm. 95—96° (Am. 30, 181 C. 1903 [2] 873).
 5) Dimethyläther d. Phenylimidomerkaptomethyl-2-Methylphenylimidomerkaptomethyl-2-Methylphenylimidomerkaptomethyl-2-Methylphenylimidomerkaptomethyl-2-Methylphenylimidomerkaptomethyl-2-Methylphenylimidomerkaptomethylphenylimidomerkaptomethylphenylimidomerkaptomethylphenylimidomerkaptomethylphenylimidomerkaptomethylphenylimidomerkaptomethylphenylimidomerkaptomethylphenylimidomerkaptomethylphenylimidomerkaptomethylphenylimidomerkaptomethylphenylimidomerkaptomethylphenylimidomerkaptomethylphenylimidomerkaptomethylphenylimidome imidomerkaptomethylamin. Sm. 147-148° (Am. 30, 179 C. 1903 6) Dimethyläther d. Phenylimidomerkaptomethyl-4-Methylphenylimidomerkaptomethylamin. Fl. HJ (*Am.* 30, 174 *C.* 1903 [2] 872). *7) s-Di[2,4-Dimethylphenyl]harnstoff. Sm. 260—262° (*M.* 25, 381 C17 H20 ON2 C. 1904 [2] 320). *24) 3,6-Di[Dimethylamido]xanthen. Sm. 113°. 2HCl, (2HCl, PtCl₄) (B. 37, 204 C. 1904 [1] 665; B. 37, 3620 C. 1904 [2] 1503).
 *36) Di[4-Methylamido-3-Methylphenyl]keton. 2HCl (C. 1903 [1] 399).
 39) Aethylberyl-4-Acetylamidophenylamin. Sm. 111° (A. 334, 263 C. **1904** [2] 902). 40) β -Benzoyl- $\alpha\beta$ -Diphenyl- α -Phenylhydrazin. Sm. 59—60° (B. 35, 4186) C. 1903 [1] 143). 41) β-Benzoyl-αβ-Diäthyl-α-Phenylhydrazin. Sm. 60° (C. 1903 [1] 1128).
 2) α, 4-Dibrombenzylcampher (C. r. 136, 72 C. 1903 [1] 459). $C_{17}H_{20}OBr_{2}$ 2) α,4-Difformedizylempher (C. r. 136, 71 C. 1903 [1] 459).
 3) 2-Brombenzylbromcampher. Fl. (C. r. 136, 71 C. 1903 [1] 459).
 4) 4-Brombenzylbromcampher. Fl. (C. r. 136, 71 C. 1903 [1] 459).
 C₁₇H₂₀O₂N₂ 22) 3,6-Di[†]Dimethylamido]-9-Oxyxanthen? Chlorid + H₂O, 2 Chlorid + PtCl₄ (D. E. P. 1903 [2] 442).
 23) Acetat d. α-Oxydi[4-Amido-8-Methylphenyl]methan. Sm. 153° (C. 1903 [2] 442). 2) Benzoat d. β-Merkaptocampher. Sm. 59° (Soc. 83, 483 C. 1903 [1] C17H20O2S 923, 1137). 10) 4'-Diäthylamido-4-Oxydiphenylamin-3-Carbonsäure. Sm. 175 bis $C_{17}H_{20}O_8N_2$ 177° (D.R.P. 140733 C. 1903 [1] 1011). Monobenzoat d. γ-d-Campherdioxim. Sm. 172° u. Zers. (Soc. 85, 911 C. 1904 [2] 598). $C_{17}H_{20}O_8N_4$ 13) $\alpha\gamma$ -Di[4-Methylphenylnitrosamido]- β -Oxypropan. Sm. 223° (B. 37, 3035 C. 1904 [2] 1213). $C_{17}H_{20}O_4N_2$ *5) Diphenylhydrazon d. 1-Arabinose. Sm. 204—205° (B. 37, 312) C. 1904 [1] 650). $C_{17}H_{20}O_4N_4$ *1) Di[2-Nitro-4-Dimethylamidophenyl]methan (D.R.P. 139989 C. 1903) [1] [798). 7) $\tilde{D}i[4-\tilde{N}itrophenylamido]-\beta-Methylbutan. Sm. 158° (A. 328, 130)$ C. 1903 [2] 790).
 9) $\beta\beta$ -Di[Benzylsulfon] propan. Sm. 153° (B. 36, 299 C. 1903 [1] 499). C17H20O4S2 6) Aethylester d. Anhydrocotarnincyanessigsäure. Sm. 95-96° u. C17H20O5N2 Zers. (2HCl, PtCl₄) (B. 37, 2747 C. 1904 [2] 545).
- 2) 5-Dimethylamido-1,2,4-Trimethylbenzol + 1,3,5-Trinitrobenzol $C_{17}H_{20}O_6N_4$ (Soc. 85, 239 C. 1904 [1] 1006).
- *1) a-Methylallylphenylbenzylammoniumjodid (Ph. Ch. 45, 236 C. 1903 $C_{17}H_{20}NJ$ [2] 979).
 - *4) d-a-Methylallylphenylbenzylammoniumjodid (B. 37, 2725 C. 1904 [2] 592).

CyrH22ON4

C17 H22 O4 N6

414 ---17 III. *1) Phenylamidomethylencampher (C. r. 136, 1223 C. 1903 [2] 116). 19) 4'-Dimethylamido-4-Oxy-2,5-Dimethyldiphenylmethan. Sm. 153 bis 155° (A. 334, 337 C. 1904 [2] 989). $C_{17}H_{21}ON$ 20) Benzyliden-α-Anhydropulegonhydroxylamin. Sm. 105—106°. Pikrat (B. 37, 2284 C. 1904 [2] 441). 21) Base (aus α-Oxybenzylidencampher). Sm. 118—119°. Pikrat (Soc. 83, 108 C. 1903 [1] 233, 458). 22) Base (aus α-Chlorbenzylidencampher). Sm. 170°. Pikrat (Soc. 83, 107) C. 1903 [1] 233, 458). 7) 4-Phenylsemicarbazon-5-Methyl-2-Isopropyl-1, 2, 3, 4-Tetrahydrobenzol (d-Carvonphenylcarbaminsäurehydrazon). Sm. 176—177° (B. 87, 3183 C. 1904 [2] 991). C17H21ON3 *3) d-Benzylbromcampher. Sd. 94-95° (C. r. 138, 69 C. 1903 [1] 459). *4) isom. d-Benzylbromcampher. Sm. 91-92° (C. r. 136, 70 C. 1903 C,,H2,OBr [1] 459). 5) r-Benzylbromcampher. Sm. 112° (C. r. 132, 1574). — *III, 389. *6) Benzoylamidocampher. Sm. 132° (Soc. 85, 895 C. 1904 [2] 331, 596). $C_{17}H_{21}O_2N$ *2) 2-Nitro-4, 4'-Di[Dimethylamido]diphenylmethan. Sm. 96-96,5° $C_{17}H_{21}O_2N_8$ (D.R.P. 139989 C. 1903 [1] 798) 5) Acetylparasantonimid. Sm. 169-170° (C. 1903 [2] 1067). C₁₇H₂₁O₄N *20) r-Cocain. HCl, (HCl, AuCl₃ + 2H₂O), HNO₃ (A. 326, 71 C. 1903 [1] 841).

22) Acetylderivat d. Parasantoninoximid. Sm. 176° (C. 1903 [2] 1377). *5) Diathylester d. 4-[2-Furanyl]-2,6-Dimethyl-1,4-Dihydropyridin- $C_{17}H_{21}O_5N$ 3,5-Dicarbonsäure (D. d. Hydrofuryldicarbolutidinsäure). Sm. 164° (Soc. 83, 378 C. 1903 [1] 845, 1144). Pentamethyläther d. Pentaoxydiphenylamin. Sm. 131—133° (Ar.

242, 512 C. 1904 [2] 1387).

8) Anhydrocotarninacetylaceton. Sm. 98-99°. HCl, (2 HCl, PtCl₄) (B. 37, 2745 C. 1904 [2] 545).
*1) ββ'-Di[4-Methylphenoxyl]isopropylphosphorigesäure.

Anilinsalz, $C_{17}H_{21}O_5P$ p-Toluidinsalz (Soc. 83, 1141 C. 1903 [2] 1059). 2) $\beta\beta'$ -Di[2-Methylphenoxyl]isopropylphosphorigesäure. Sm. 88–89°. Ca + 4H₂O, Anilinsalz, p-Toluidinsalz (Soc. 83, 1138 C. 1903 [2] 1059). 3) $\beta\beta'$ -Di[3-Methylphenoxyl]isopropylphosphorigesäure. Sm. 85–87°.

Anilinsalz, p-Toluidinsalz (Soc. 83, 1140 C. 1903 [2] 1059). C 50,1 — H 5,2 — O 27,5 — N 17,2 — M. G. 407.

 $C_{17}H_{21}O_7N_5$

Benzoyltetra[Amidoacetyl]amidoessigsäure + H₂O. Sm. 246-252° u. Zers. Ag (J. pr. [2] 70, 87, 95 C. 1904 [2] 1034, 1035).
 α-Oxydi[4-Dimethylamidophenylmethan] (B. 36, 4298 C. 1904 [1]

 $\mathbf{C}_{17}\mathbf{H}_{22}\mathbf{ON}_{2}$ 9) $\alpha \gamma$ -Di[4-Methylphenylamido]- β -Oxypropan. Sm. 113,5° (B. 37, 3035)

Ö. **19Ŏ4** [2] 1213). 3) Aethyloxydhydrat d. 3-Amido-7-Dimethylamido-2-Methyl-5,10-

Naphtdiazin. Nitrat (A. 327, 124 C. 1903 [1] 1221). $C_{17}H_{22}O_2N_2$ *1) Di[4-Dimethylamido-2-Oxyphenyl]methan (B. 37, 205 Anm. C. 1904 [1] 665).

*2) Diäthyläther d. Di[4-Oxyphenylamido]methan. Sm. 89° (B. 36, 49 C. 1903 [1] 505).

1) 1-Menthylester d. 2, 3-Dichlorbenzol-1-Carbonsäure. $C_{17}H_{22}O_2Cl_2$ (Soc. 83, 1214 C. 1903 [2] 1330).

2) 1-Menthylester d. 2,4-Dichlorbenzol-I-Carbonsäure. Sd. 218-219 0,16 (Soc. 83, 1214 C. 1903 [2] 1330). 3) l-Menthylester d. 2,5-Dichlorbenzol-l-Carbonsäure. Sm. 28—29°;

Sd. 243—245°₈₅ (Soc. 83, 1214 C. 1903 [2] 1330). 4) l-Menthylester d. 2,6-Dichlorbenzol-1-Carbonsäure. Sm. 134-135°

(Soc. 83, 1214 C. 1903 [2] 1330). 5) 1-Menthylester d. 3,4-Dichlorbenzol-1-Carbonsäure. Sd. 244-245 85

(Soc. 83, 1214 C. 1903 [2] 1330). 6) 1-Menthylester d. 3, 5-Dichlorbenzol-1-Carbonsäure. Sd. 223-225 0 20

(Soc. 83, 1214 C. 1903 [2] 1330), C 54,5 — H 5,9 — O 17,1 — N 22,5 — M. G. 374. Azid d. β -[β -Benzoylamidoacetylamidobutyryl]amidobuttersäure. Zers. bei 78° (J. pr. [2] 70, 222 C. 1904 [2] 1461).

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C_{17}H_{22}O_6N_2
                              C 58,3 - H 6,3 - O 27,4 - N 8,0 - M. G. 350.
                         l) Diäthylester d. \alpha - Benzoylamidoacetylamidoathan - \alpha \beta - Dicarbon-
                              säure. Sm. 92° (J. pr. [2] 70, 171 C. 1904 [2] 1396).
C_{17}H_{22}O_0N_4*1) Aethylester d. Benzoyltri[Amidoacetyl]amidoessigsäure. Sm. 213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (213° (
                              (B. 37, 1284 C. 1904 [1] 1335; B. 37, 1299 C. 1904 [1] 1336; J. pr. [2] 70, 85 C. 1904 [2] 1034).
C_{17}H_{22}O_8N_2
                         2) Dicyanmalonacetbernsteinsäureesterlaktam. Sm. 1160 (A. 332, 131
                              C. 1904 [2] 190).
                         2) 3-Phenylsemicarbazon-4-Isopropyliden-1-Methylhexahydrobenzol
C17H23ON3
                              (Pulegonphenylcarbaminsäurehydrazon). Sm. 132—133° (B. 37, 3182)
                               C. 1904 [2] 991).
                         3) Phenylsemicarbazon d. d-Campher. Sm. 153-1540 (B. 37, 3182)
                       C. 1904 [2] 991).
*1) 2-Chlor-3-Keto-1-Methyl-4-Isopropyl-2-Benzylhexahydrobenzol.
C_{17}H_{23}OCl
                              Sm. 140° (C. 1904 [2] 1043).
C_{17}H_{28}O_2N
                       16) Benzylidentanacetonhydroxylamin. Sm. 138-140° (B. 36, 4371
                               C. 1904 [1] 456).
                       17) Benzoylderivatd. β-[2-Hydroxylamido-4-Methylhexahydrophenyl]-
                              propen. Sm. 63° (B. 36, 486 C. 1903 [1] 637).
                       18) \beta-Acetyl-\gamma-Keto-\alpha-[1-Piperidyl]-\alpha-Phenylbutan. Sm. 93° (Soc. 85,
                               1176 C. 1904 [2] 1215).
                       19) Phenylamidoformiat d. isom. Terpineol. Sm. 132° (Soc. 85, 1329)
                               C. 1904 [2] 1652).
                       20) Phenylamidoformiat d. 1-Linalool. Sm. 65° (J. pr. [2] 67; 323
                               C. 1903 [1] 1137).
                       21) Phenylamidoformiat d. Alkohol C<sub>10</sub>H<sub>18</sub>O (aus Camphenylon). Sm. 127,5 bis 128° (B. 37, 1037 C. 1904 [1] 1263).
                        22) Hydroxylaminderivat (aus Benzylidendihydrocarvon). Sm. 145—146° (A. 305, 269). — *III, 144.
                        23) Verbindung (aus Menthonamin). Sm. 145-146° (C. 1904 [1] 1517).
                        24) isom. Verbindung (aus Menthonamin). Sm. 85-86° (C. 1904 [1]
                               1517).
                         1) 1-Menthylester d. 2-Chlorbenzol-1-Carbonsäure. Sd. 225 % (Soc. 83,
 \mathbf{C}_{17}\mathbf{H}_{28}\mathbf{O}_{2}\mathbf{Cl}
                               1214 C. 1903 [2] 1330).
                          2) 1-Menthylester d. 3-Chlorbenzol-1-Carbonsäure. Sd. 218-219014
                                (Soc. 83, 1214 C. 1903 [2] 1330).
                          3) 1-Menthylester d. 4-Chlorbenzol-1-Carbonsäure. Sd. 231-232020
                               (Soc. 83, 1214 C. 1903 [2] 1330).
 C<sub>17</sub>H<sub>28</sub>O<sub>2</sub>Br *2) l-Menthylester d. 2-Brombenzol-1-Carbonsäure (Soc. 83, 1214
                               C. 1903 [2] 1330).
                          1) 1-Menthylester d. 2-Jodbenzol-1-Carbonsäure. Fl. (Soc. 85, 1272
 C17 H28 O2 J
                               C. 1904 [2] 1303).
                          2) 1-Menthylester d. 3-Jodbenzol-1-Carbonsäure. Fl. (Soc. 85, 1273
                               C. 1904 [2] 1303).
                          3) 1-Menthylester d. 4 - Jodbenzol-1-Carbonsäure. Fl. (Soc. 85, 1274
                        C. 1904 [2] 1803).
18) Benzoat d. Verbindung C_{10}H_{19}O_2N. Sm. 144°. HCl (B. 36, 768)
 C_{17}H_{23}O_8N
                               C. 1903 [1] 836).
                          5) isom. 4-Bromphenyloxyhomocampholsäure. Sm. 120° (C. r. 136, 73
 C_{17}H_{28}O_8Br
                               C. 1903 [1] 459).
                          6) Anhydrocotarninmethylpropylketon. Sm. 86-92°. (2HCl, PtCl<sub>4</sub>)
 C17H23O4N
                               (B. 37, 214 C. 1904 [1] 591).
                          7) \alpha - [3 - Phenylamidoformoxyl - 4 - Methylhexahydrophenyl] propion-
                               säure. Sm. 227° (B. 36, 769 C. 1903 [1] 836).
C 61,3 — H 6,9 — O 19,2 — N 12,6 — M. G. 333.
 C17H28O4N3
                          1) Aethylester d. 2,5-Diketo-4,4-Dimethyl-1-Phenyltetrahydroimid-
                               azol-3-\alpha-Amidoisobuttersäure. Sm. 98° (C. 1904 [2] 1029). C 58,5 — H 6,6 — O 22,9 — N 12,0 — M. G. 349.

    β-[β-Benzoylamidoacetylamidobutyryl] amidobuttersäure. Sm. 147°. NH<sub>4</sub>, Ag (J. pr. [2] 70, 219 C. 1904 [2] 1461).
    Aethylester d. α-[α-Benzoylamidoacetylamidopropionyl] amidopropionäure. Sm. 174-175° (J. pr. [2] 70, 123 C. 1904 [2] 1037).
    Chlorhydrin d. Dehydrodioxyparasantonsäuredimethylester. Sm. 1469 (C. 1002 [0] 1447).

 C<sub>17</sub>H<sub>28</sub>O<sub>5</sub>N<sub>8</sub>
 C<sub>17</sub>H<sub>25</sub>O<sub>5</sub>Cl
                                146° (C. 1903 [2] 1447).
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C 60.5 - H 6.8 - O 28.5 - N 4.1 - M. G. 337.C17 H28 O6 N 1) Amid d. 3,4-Dioxy-1-[α-Acetoxyl-γ-Ketoisohexyl] benzol-3,4-Dimethyläther-2-Carbonsäure. Sm. 187° (M. 25, 1062° C. 1904 [2] 1644). C 48,4 — H 5,5 — O 22,8 — N 23,3 — M. G. 421. C17H28O6N7 1) Hydrazid d. Benzoyltetra[Amidoacetyl]amidoessigsäure. bis 274° (268—269°). HCl (B. 37, 1300 C. 1904 [1] 1337; J. pr. [2] 70, 97 C. 1904 [2] 1035). 3) Amylester d. a-Benzoylamidoacetylamidopropionsäure. Sm. 960 $C_{17}H_{24}O_4N_2$ (*J. pr.* [2] 70, 117 *C.* 1904 [2] 1036). C 56,0 — H 6,6 — O 22,0 — N 15,4 — M. G. 364. $C_{17}H_{24}O_5N_4$ 1) α -Phenylamidoformylamidoisocapronylamidoacetylamidoessigsäure. Sm. 182-183° (B. 36, 2991 C. 1903 [2] 1112).

2) Aethylester d. α-[α-Benzoylamidoacetylamidopropionyl] amidoäthylamidoameisensäure. Sm. 203° (J. pr. [2] 70, 126 C. 1904 [2] 1037). C 53.7 - H 6.3 - O 25.2 - N 14.7 - M. G. 380. $C_{17}H_{24}O_6N_4$ Diäthylester d. α-Benzoylamidoacetylamidoäthan-αβ-Di[Amidoameisensäure]. Sm. 214° (J. pr. [2] 70, 178 C. 1904 [2] 1396).
 Cuminylidenmalonäthylesterhydrosulfonsäure. K + ½ H₂O (B. 37, 1000). C₁₇H₂₄O₇S 4059 C. 1904 [2] 1649). C 47,2 - H 5,6 - O 40,7 - N 6,5 - M. G. 432.C₁₇H₂₄O₁₁N₂ 1) Pentaacetat d. Glykoseureïd. Sm. 200° (R. 22, 59 C. 1903 [1] 1080). 2) Chlormethylat d. 4-Methyl-7-Isopropylcarbazolenin. $C_{17}H_{24}NCl$ + AuCl₃ (C. 1904 [2] 343). C₁₇H₂₄NJ 2) Jodmethylat d. 4-Methyl-7-Isopropylcarbazolenin. Sm. 209-210 u. Zers. (C. 1904 [2] 342). $C_{17}H_{24}N_2S$ 12) isom. s-Phenylcamphylthioharnstoff? Sm. 150-152° (B. 37, 160 C. 1904 [1] 582). $C_{17}H_{25}ON$ Benzoyl-I-Menthylamin. Sm. 156° (Soc. 85, 70 C. 1904 [1] 375, 808). 8) Benzoyl-iso-l-Menthylamin. Sm. 121° (Soc. 85, 121 C. 1904 [1] 808). 9) Benzoyl-neo-l-Menthylamin. Sm. 128° (Soc. 85, 77 C. 1904 [1] 375, 808). 10) Benzoyl-iso-neo-l-Menthylamin. Sm. 104° (Soc. 85, 77 C. 1904 [1] 375, 808). C17 H25 ON8 2) α -Phenylamido- β -Bornylharnstoff. Sm. 140° u. Zers. (Soc. 85, 1191 C. 1904 [2] 1125). 3) 1-3-Phenylsemicarbazon-4-Isopropyl-1-Methylhexahydrobenzol. Sm. 180-181° (B. 37, 3182 C. 1904 [2] 991). 5) 3-Keto-2- $[\alpha$ -Hydroxylamidobenzyl]-4-Isopropyl-1-Methylhexahydrobenzol. Sm. 162° (B. 37, 234 C. 1904 [1] 725). C17 H25 O2N 6) Hydroxylaminderivat d. isom. Benzylidenmenthon vom Sm. 47°. Sm. 155° (C. r. 134, 1438 C. 1902 [2] 280; C. 1904 [2] 1044). Sm. 100° (C. r. 134, 1458 C. 1902 [2] 280; C. 1904 [2] 1044).
7) Hydroxylaminderivat d. isom. Benzylidenmenthon vom Sm. 51°.
Sm. 172° (C. r. 134, 1437 C. 1902 [2] 280; C. 1904 [2] 1044).
8) Phenylamidoformiat d. 2-Oxymethyl-1, 1, 2, 5-Tetramethyl-R-Pentamethylen. Sm. 45° (Bl. [3] 31, 750 C. 1904 [2] 303).
8) Phenylmonamid d. cis-βζ-Dimethylheptan-γδ-Dicarbonsäure. Sm. 149—150° (Am. 30, 238 C. 1903 [2] 934).
C 60,9 — H 7,5 — O 19,1 — N 12,5 — M. G. 335.
1) α-[α-Amidoisocapronyllamidoscetylamido-β-Phenylpronjonsäure. C17H25O8N C₁₇H₂₅O₄N₈ 1) α -[α -Amidoisocapronyl] amidoacetylamido - β -Phenylpropionsäure. Sm. 225—228° (B. 37, 3314 C. 1904 [2] 1307). C17H25O4N5 C 56,1 — H 6,9 — O 17,6 — N 19,3 — M. G. 363. Hydrazid d. β-[β-Benzoylamidoacetylamidobutyryl] amidobuttersäure. Sm. 194°. HCl (J. pr. [2] 70, 221 C. 1904 [2] 1461).
 Monoäthylester d. Säure C₁₅H₂₁O₄Br (aus Dibromparasantonsäure). $C_{17}H_{25}O_4Br$ Sm. 93—95° (C. 1903 [2] 1447). C 66,7 — H 8,5 — O 15,7 — N 9,1 — M. G. 306. 1) Acetat d. Oxylupanin. (HCl, AuCl₈) (Ar. 242, 428 C. 1904 [2] 782). C17H26O8N2 2) Aethylester d. α -[α -Amidoisocapronyl]amido- β -Phenylpropionsäure. HCl (B. 37, 3310 C. 1904 [2] 1306). *3) 3-Oxy-2-Phenylamidomethyl-4-Isopropyl-1-Methylhexahydrobenzol (C. 1904 [2] 1044). C17H27ON

4) $3-Oxy-2-[\alpha-Amidobenzyl]-4-Isopropyl-1-Methylhexahydrobenzol.$

Sd. 202—206°₁₅ (B. 37, 235 C. 1904 [1] 725).

- C17 H27 O2 N 4) Benzoat d. α -Dimethylamido- β -Oxy- β s-Dimethylhexan. HCl(C.r.138,767 C. 1904 [1] 1196). C 66,9 — H 8,8 — O 10,5 — N 13,8 — M. G. 305. C17H27O2N3
- 1) Semicarbazon d. Methylpseudojononhydrat (D.R.P. 150771 C. 1904 [1] 1307).
 - 2) Semicarbazon d. isom. Methylpseudojononhydrat. Sm. 1930 (D.R.P. 150771 C. 1904 [1] 1307).
- *2) 2-Methoxylphenylester d. Diisobutylamidoessigsäure. Fl. (2HCl, $C_{17}H_{27}O_8N$
- PtCl_a), (HCl, AuCl_a), HJ (Ar. 240, 638 C. 1903 [1] 24. 1) $\alpha \alpha$ -Di[Isoamylsulfon]- α -Phenylmethan. Sm. 99—100° (B. 36, 298 C₁₇H₂₈O₄S₂ C. 1903 [1] 499).
- 1) ααδ-Triäthylsulfon-α-Phenylpentan. Sm. 163° (B. 37, 508 C. 1904 C17H28O8S3 [1] 883).
- Jodäthylat d. d-2-Propyl-1-Benzylhexahydropyridin (J. d. N-Benzylconiin). Sm. 179° (B. 37, 3631 C. 1904 [2] 1510).
 isom. Jodäthylat d. d-2-Propyl-1-Benzylhexahydropyridin. Sm. 208° C,7H28NJ
 - (B. 37, 3632 C. 1904 [2] 1510).
- 2) α-Bromhexadekan-α-Carbonsäure. Sm. 52,5° (Soc. 85, 838 C. 1904 C17H33O2Br [2] 509).
- C17 H35 ON
- 2) a-Oximidoheptadekan. Sm. 89,5° (Soc. 85, 834 C. 1904 [2] 509).
 3) Amid d. Margarinsäure. Sm. 106° (Soc. 85, 837 C. 1904 [2] 509).
 *1) Sphingosin. H₂SO₄ (H. 43, 29 C. 1904 [2] 1550).
 C 40,2 H 7,9 O 40,9 N 11,0 M. G. 508. $C_{17}H_{85}O_2N$ C17H40O18N4
 - 1) Verbindung (aus d. Nitril d. Methylenamidoessigsäure). 4HCl (B. 36, 1509 C. 1903 [1] 1302).

- 17 IV -

- 1) Dibrommethylindigo (D.R.P. 149940 C. 1904 [1] 1046). $C_{17}H_{10}O_2N_2Br_2$
- Methylenindigosulfonsäure (C. 1903 [2] 835).
 Diacetat d. 2,5,2',5' [oder 5, 6, 5', 6'] Tetrabrom-3,3'-Dinitro-4,4'-Dioxydiphenylmethan. Sm. 167° (A. 333, 367 C. 1904 [2] $C_{17}H_{10}O_{5}N_{2}S$ $\mathbf{C}_{17}\mathbf{H}_{10}\mathbf{O}_8\mathbf{N}_2\mathbf{Br}_4$
- 1117). 1) Benzoat d. 4-Chlor-1-Merkaptonaphtalin. Sm. 111-1120 (C.r. 138. C₁₇H₁₇OClS
- 983 C. 1904 [1] 1413). 1) Benzoat d. 4-Brom-1-Merkaptonaphtalin. Sm. 120-121 ° (C.r. 138, $C_{17}H_{11}OBr8$
- 983 C. 1904 [1] 1413). 3) 1-[6-Chlor-3-Nitrophenyl]amidonaphtalin. Sm. 176° (M. 25, 371 $C_{17}H_{11}O_2N_2Cl$
- C. 1904 [2] 322). 3) ?-Brom- α -[2-Nitrophenyl]- β -[2-Chinolyl] athen. Sm. 274° (B. 36, $C_{17}H_{11}O_{2}N_{9}Br$ 1667 C. 1903 [2] 49).
- 4) Brommethylindigo (D.R.P. 149940 C. 1904 [1] 1046).
- 1) Phenylamid d. 3,?-Dibrom-4-Oxy-1-Naphtylazoameisensäure. $C_{17}H_{11}O_2N_3Br_2$ Sm. 250° u. Zers. (A. 334, 200 C. 1904 [2] 835).

 1) 3,4-Methylenäther d. 2-Thiocarbonyl-4-Keto-3-Phenyl-5-
- C17H11O8NS2 [3,4-Dioxybenzyliden]tetrahydrothiazol. Sm. 1930 (M. 24, 511 C. 1903 [2] 836).
- 4) 2-Oxy-1-[2,6-Dibrom-4-Methylphenylazo]naphtalin. Sm. 141° $C_{17}H_{12}ON_2Br_2$ (Soc. 83, 812 C. 1903 [2] 426).
 2) Nitril d. γδ-Dibrom-α-[4-Nitrophenyl]-δ-Phenyl-α-Buten-α(2) Nitril d. γδ-Dibrom-α-[4-Nitrophenyl]-δ-Phenyl-α-Buten-α(2) 1723)
- $C_{17}H_{12}O_2N_2Br_2$ Carbonsaure. Sm. 179--180 (A. 336, 220 C. 1904 [2] 1733).
- 1) Phenylamid d. 3-Brom-4-Oxy-1-Naphtylazoameisensäure. Sm. $C_{17}H_{12}O_2N_3Br$ 250° u. Zers. (A. 334, 199 C. 1904 [2] 835).
- 1) 3,4-Methylenäther d. 2-Phenylimido-4-Keto-5-[3,4-Dioxybenzyliden] tetrahydrothiazol. Sm. 259—261° (O. 1903 [1] 1258).
 1) 5-Keto-3-Methyl-4-[4-Chlor-2-Nitrobenzyliden]-1-Phenyl-4,5-Dihydropyrazol. Sm. 180° (B. 37, 1865 C. 1904 [1] 1600). $C_{17}H_{12}O_8N_2S$
- C₁₇H₁₂O₃N₃Cl Lakton d. γ-Brom-δ-Oxy-δ-Phenyl-α-[4-Nitrophenyl]-α-Buten-α-Carbonsäure. Sm. 169—171° (B. 37, 1123 C. 1904 [1] 1210; $\mathbf{C_{17}H_{12}O_4NBr}$
- A. 336, 219 C. 1904 [2] 1733).
 Aethylester d. 4-Brom-2-[α-Cyan-4-Nitrobenzyliden]amidobenzol-1-Carbonsäure. Sm. 144° (B. 37, 1872 C. 1904 [1] 1601). $\mathbf{C}_{17}\mathbf{H}_{12}\mathbf{O}_4\mathbf{N}_8\mathbf{Br}$
- 1) Diacetat d. 5,5'-Dibrom-3,3'-Dinitro-4,4'-Dioxydiphenylmethan. $C_{17}H_{12}O_8N_2Br_2$ Sm. 185° (A. 333, 366 C. 1904 [2] 1117).

2) 5-Chlor-4-Benzoyl-3-Methyl-1-Phenylpyrazol, Sm. 88°; Sd. 245°,

2) 5-0mor-1-benzoyro-account 12 Monthly Pyrazot. Sm. 36, 524 C. 1903 [1] 641).
 1) Methyläther d. 2-Thiocarbonyl-4-Keto-3-Phenyl-5-[4-Oxybenzyliden]tetrahydrothiazol. Sm. 221 (M. 24, 509 C. 1904).

1) Acetatd.N-Acetylphenyl-3,4,5,6-Tetrabrom-2-Oxybenzylamin Sm. $161-162^{\circ}$ (A. 332, 180 C. 1904 [2] 209).

1) 53-Methyläther d. 2-Thiocarbonyl-4-Keto-5-|3,4-Dioxy

1) γδ-Dibrom-δ-Phenyl-α-[4-Nitrophenyl]-α-Buten-α-Carbonsäure Sm. 207-209° (B. 37, 1124 C. 1904 [1] 1210; A. 336, 218 C. 1904

[2] 1732).
2) 1-Phenylamidonaphtalin - 1" - Carbonsäure - 4 - Sulfonsäure.

benzyliden]-3-Phenyltetrahydrothiazol. Sm. 1936 (M. 25. 16)

C.,H.,ON,Cl

C17H18O2NS2

C,,H,8O,NBr4

 $C_{17}H_{13}O_{3}NS_{2}$

C, H, O, NBr

[2] 836).

C. 1904 [1] 894).

$C_{17}H_{18}O_5NS$	2) 1-Phenylamidonaphtalin - 12- Carbonsäure - 4-Sulfonsäure. Na
	(D.R.P. 146102 C. 1903 [2] 1152). 3) 1-Phenylamidonaphtalin - 12- Carbonsäure - 5-Sulfonsäure. Na
	(D.R.P. 146102 C. 1903 [2] 1152).
	4) 1-Phenylamidonaphtalin - 1° - Carbonsäure - 7 - Sulfonsäure. Na
•	(D.R.P. 146102 C. 1903 [2] 1152).
	5) 2-Phenylamidonaphtalin-22-Carbonsäure-5-Sulfonsäure (I). R. P.
	146102 C. 1903 [2] 1152). 6) 2-Phenylamidonaphtalin-2"-Carbonsäure-6-Sulfonsäure. Na
	(D.R.P. 146102 C. 1903 [2] 1152).
$C_{17}H_{14}ONCI$	2) Aethyläther d. 1-Chlor-4-Oxy-3-Phenylisochinolin. Sm. 82-836
-1714	(B. 37, 1691 C. 1904 [1] 1524).
	3) Phenacylchlorid d. Chinolin + H _e O. Sm. 193-197° (wasserfrei).
	2 + PtCl ₄ , + AuCl ₈ (Ar. 240, 692 Ann. C. 1903 [1] 402). 4) Phenacylchlorid d. Isochinolin + 2H ₂ O. + HgCl ₂ , 2 + PtCl ₄ ,
	+ AuCl ₃ (Ar. 240, 701 Ann. C. 1903 [1] 403).
C TT ONTD:	*2) Phenacylbromid d. Chinolin + H ₂ (). Sm. 117—118° (169°
$C_{17}\mathbf{H}_{14}\mathbf{ONBr}$	wasserfrei) (Ar. 240, 692 C. 1903 [1] 402).
	*3) Phenacylbromid d. Isochinolin + 1/2 H2(). Sm. 206° wasserfrei
	$(Ar. 240, 701 \ U. 1903 \ (11.403).$
$\mathbf{C_{17}H_{14}ON_{2}S}$	1) Benzoat d. 5-Merkapto-3-Methyl-l-Phenylpyrazol. Sm. 930
C TT ON CI	(B. 37, 2774 C. 1904 [2] 711).
$C_{17}H_{14}ON_8Cl$	3) 5-Keto-3-Methyl-4-[4] Chlor-2-Amidobenzyliden]-1-Phenyl-4,5-Dihydropyrazol. Sm. 265° (B. 37, 1873 C. 1904 [1] 1602).
$C_{17}H_{14}O_5N_2S$	1) 6-[3-Amidobenzoyl] amido - 1 - Oxynaphtalin - 3 - Sulfonsäure
O171114O5112D	(D.R.P. 151017 C. 1904 [1] 1381).
$\mathbf{C_{17}H_{14}O_5N_8Br}$	1) Acetat d. a-Acetyl-a-Phenyl-\(\beta\)-[5-Brom-3-Nitro-2-Oxy-
-1714-58	benzyliden]hydrazin. Sm. 203-204" (B. 37, 3936 C. 1904 [2]
	1596).
$\mathbf{C_{17}H_{15}ON_{2}Cl}$	1) Oxim d. Chinolinphenacylchlorid. HCl + 11/2H2O (Ar. 240,
	697 C. 1903 [1] 402).
•	2) Oxim d. Isochinolinphenacylchlorid + 11/2 H ₂ O. Sm. 147° (Ar. 240, 704 C. 1903 1 403).
	3) Phenylamid d. Chlorchinoliniumessigsäure + H ₂ U. 2 + PtCl ₄ ,
	$+ \text{AuCl}_{8} (Ar. 241, 126 C. 1903 [1] 1()24).$
	4) Phenylamid d. Chlorisochinoliniumessi essure. Sm. 202-206".
	$+ \text{ rgCl}_2$, $2 + \text{ PfCl}_4$, -1 AuCl_2 (Ac. 240), 706 (2. 1903) [11.403]
C ₁₇ H ₁₅ ON ₂ Br	Ar. 241, 127 C. 1903 [1] 1024). 1) Oxim d. Chinolinphenacylbromid. Sm. 207° (Ar. 240, 693)
17 10 2	C. 1903 [1] 402).
	2) Oxim d. Isochinolinphenacylhromid. Sur. 195-2050 (4: 240
	101 0. 1803 [1] 403].
	3) Phenylamid d. Bromchinoliniumessigsäure. Sm. 225-227"
	(Ar. 241, 126 C. 1903 [1] 1023).
	4) Phenylamid d. Bromisochinoliniumessigsäure. Sm. 216—218° (Ar. 241, 127 C. 1903 [1] 1024).
$\mathrm{C_{17}H_{15}OClBr_2}$	1) ε-Chior-αβ-Dibrom-γ-Keto-αε-Diphenylhutan. Sm 1280 (R 38
C III O NID.	2010 0. 1000 [2] 499).
$C_{17}H_{15}O_2NBr_2$	1) Acetat d. N - Acetylphenyl - 3,5 - Dibrom - 2 - Oxybenzylamin
	(A. 332, 178 C. 1904 [2] 260).

	- 419 - 17 IV.
$\mathbf{C_{17}H_{15}O_{2}N_{2}Cl}$	1) α - Acetylimido - α - [Acetyl - 4 - Chlorphenyl]amido - α - Phenylmethan. Sm. 170° (J. pr. [2] 67, 456 C. 1903 [1] 1421).
$\mathbf{C_{17}H_{15}O_8NS}$	9) 2-[2-Methylphenyl]amidonaphtalin-6-Sulfonsäure. Na, Ca, Ba (C. 1904 [1] 1013).
	10) 2 - [4 - Methylphenyl] amidonaphtalin - 6 - Sulfonsäure (C. 1904 [1] 1013).
	11) 2-[4-Methylphenyl]amidonaphtalin-8-Sulfonsäure. Na (C. 1904 [1] 1013).
$C_{17}\mathbf{H}_{15}O_{8}\mathbf{N}_{2}\mathbf{Br}$	1) Benzyläther d. 3-Brom-5-Nitro-2-Oxy-1-Methyl-1,2-Dihydro-chinolin. Sm. 120° (J. pr. [2] 45, 189). — IV, 266.
	2) Acetat d. α -Acetyl - α - Phenyl - β - [5 - Brom - 2 - Oxybenzyliden] - hydrazin. Sm. 136—137° (B. 37, 3934 C. 1904 [2] 1596).
$\mathrm{C_{17}H_{15}O_4NBr_2}$	1) Methylester d. N-Acetyl-3-[3,5-Dibrom-2-Oxybenzyl]amido- benzol-1-Carbonsäure. Sm. 117—119° (A. 332, 196 C. 1904 [2] 210).
$\mathbf{C_{17}H_{15}O_{4}NS}$	4) 6-Aethylphenylsulfonamido-1, 2-Benzpyron. Sm. 124° (Soc. 85, 1238 C. 1904 [2] 1124).
$\mathrm{C_{17}H_{15}O_5N_3S}$	1) 6 - [4 - Amidophenyl] ureïdo - 1 - Oxynaphtalin - 3 - Sulfonsäure (D.R. P. 151017 O. 1904 [1] 1382).
$\mathbf{C_{17}H_{15}O_6NS_2}$	1) 2-[4-Methylphenyl]amidonaphtalin-6,8-Disulfonsäure (C. 1904 [1] 1013).
$\mathbf{C_{17}H_{15}N_{2}Cl_{2}Br}$	1) Isochinolin $+\beta\beta$ -Dichlor - γ -Brom - α -Phenylamidopropan. 2 + PtCl ₄ , + AuCl ₃ (Ar . 241, 121 C . 1903 [1] 1023).
$\mathrm{C_{17}H_{16}ONBr}$	2) 8-Brom-5-Benzoylamido-1, 2, 3, 4-Tetrahydronaphtalin. Sm. 202 bis 203° (Soc. 85, 746 C. 1904 [2] 447).
$C_{17}H_{16}ON_2S$	3) 2-[2-Methylphenyl]imido-4-Keto-3-[2-Methylphenyl]tetra- hydrothiazol. Sm. 151—152° (C. 1903 [1] 1258).
	4) 1-[Acetyl-2-Methylphenyl]amido-4-Methylbenzthiazol. Sm. 77° (B. 36, 3130 C. 1903 [2] 1070).
	5) 1-[Acetyl-4-Methylphenyl]amido-5-Methylbenzthiazol. Sm. 158° (B. 36, 3131 C. 1903 [2] 1070).
C17H16ON4S	1) 1 - Phénylthioureïdo - 2 - Thiocarbonyl - 4 - Keto - 5 - Methyl - 3- Phenyltetrahydroimidazol. Sm. 223° u. Zers. (C. 1904 [2] 1027).
$C_{17}\mathbf{H}_{16}O_{2}\mathbf{N}_{2}\mathbf{S}$	5) 5-Benzylsulfon-3-Methyl-1-Phenylpyrazol. Sm. 920 (A. 331, 238 C. 1904 [1] 1221).
	6) 2-Acetat d. 2-Merkapto-6-Oxy-1-Phenylbenzimidazol-6-Aethyläther. Sm. 163-164° (B. 36, 3849 C. 1904 [1] 89).
$C_{17}H_{16}O_8NC1$	3) Acetat d. 4-Chlor-1-[Acetyl-2-Oxybenzyl]amidobenzol (Ar . 240, 685 C . 1903 [1] 395).
$\mathrm{C_{17}H_{16}O_{8}NBr}$	4) Acetat d. 4-Brom-1-[Acetyl-2-Oxybenzyl]amidobenzol (Ar. 240, 686 C. 1903 [1] 395).
$C_{17}H_{16}O_8ClJ$	1) 4-Benzoat d. 3,4-Dioxy-1-[α -Chlor- β -Jodpropyl] benzol 3-Methyläther (C. 1904 [2] 506).
	2) 4-Benzoat d. 3, 4-Dioxy-1-[β -Chlor- γ -Jodpropyl]benzol-3-Methyläther. Sm. 91° (C. 1904 [2] 506).
$C_{17}H_{16}O_6N_2S_2$	1) Verbindung (aus Pyridin u. Sulfanilsäure). Na (J. pr. [2] 69, 131 C. 1904 [1] 816).
$\mathbf{C}_{17}\mathbf{H}_{16}\mathbf{N}_{8}\mathbf{ClS}$	1) α - Allylamidothioformylimido - α - [4 - Chlomber rl] amido - α - Phenylmethan. Sm. 169—171° (J. pr , [2] 61, 1903 [1] 1422).
$C_{17}H_{17}ON_3S$	1) β -Benzoylamido- α -Isopropylidenamido- α -Phenylthioharnstoff. Sm. 136° (Am. 32, 369 C. 1904 [2] 1507).
	2) 1-Phenylamido-2-Thiocarbonyl-4-Keto-5,5-Dimethyl-3-Phenyl-tetrahydroimidazol. Sm. 206° (C. 1904 [2] 1028).
$\mathrm{C_{17}H_{17}O_{2}NBr_{2}}$	*1) 3,6-Dibrom-5-Oxy-2-Acetylphenylamido-1,4-Dimethylbenzol. Sm. 223—225° (A. 332, 184 C. 1904 [2] 209).
	*2) Acetat d. 3, 6-Dibrom-5-Oxy-2-Phenylamidmethyl-1, 4-Dimethylbenzol. Sm. 120° (A. 332, 183 C. 1904 [2] 209).
$C_{17}H_{17}O_2N_2Br$	1) 4-Oxybromphenylat d. 2-[4-Oxyphenyl]amido-l,2-Dihydro- nyridin. Sm. 181° (L. vr. [2] 69, 130 C. 1904 [1] 815).
$\mathbf{C_{17}H_{17}O_{2}N_{8}Br_{2}}$	1) Phenylamid d. 3,6-Dibrom-4-Oxy-5-Isopropyl-2-Methylphenyl- azoameisensäure. Sm. 199—200° (A. 334, 197 C. 1904 [2] 835).
$\mathbf{C_{17}H_{17}O_{2}N_{8}S}$	2) 3-Phenylsulfonimido-1, 5-Dimethyl-2-Phenyl-2, 3-Dihydro- pyrazol. Sm. 211° (B. 36, 3286 C. 1903 [2] 1190).
	27*

$\mathbf{C}_{17}\mathbf{H}_{17}\mathbf{O_8NS}$	2) 4-[4-Methylphenyl]merkaptophenylamid d. Oxalsäuremono äthylester (p-Thiotolylphenyloxamäthan). Sm. 121° (<i>J. pr.</i> [2] 68 268 <i>C.</i> 1903 [2] 993).	3,
$ ext{C}_{17} ext{H}_{18} ext{ONBr}_3$	 3,6,3'-Tribrom-4'-Dimethylamido-4-Oxy-2,5-Dimethyldiphenyl methan. Sm. 99—100°. HBr (A. 334, 297 C. 1904 [2] 985). 2,6,3'-Tribrom-4'-Dimethylamido-4-Oxy-3,5-Dimethyldiphenyl methan. Sm. 135°. HBr (A. 334, 323 C. 1904 [2] 987). 	
$C_{17}H_{18}ON_2S$	*4) 6-Aethyläther d. 2-Merkapto-6-Oxy-5-Methyl-1-[4-Methyl phenyl]benzimidazol. Sm. 205—206° (B. 36, 3855 C. 1904 [1] 90).
G TT ON G	 6-Aethyläther d. 2-Merkapto-6-Oxy-4-Methyl-1-[2-Methyl phenyl]benzimidazol. Sm. 240° (B. 36, 3854 C. 1904 [1] 90). 	Ĺ -
$\mathbf{C_{17}H_{18}ON_{2}S_{2}}$	 Dimethyläther d. 5-Merkapto-2-Oxy-2-Phenyl-3-[4-Methyl phenyl]-2,3-Dihydro-1,3,4-Thiodiazol. Sm. 95° (J. pr. [2] 67, 260 O. 1903 [1] 1266). 	0
	3) 5-Methyläther-2-Aethyläther d. 5-Merkapto-2-Oxy-2, 3. Diphenyl-2, 3-Dihydro-1, 3, 4-Thiodiazol. Sm. 106 (J. vr. [2] 67	-
O TT ON G	224 <i>C.</i> 1903 [1] 1261).	
$\mathbf{C_{17}H_{18}ON_4S_2}$	 s - Di [4 - Methylphenylamidothioformyl] harnstoff. Sm. 172 Soc. 83, 94 C. 1903 [1] 230, 447). 	U
$\mathrm{C_{17}H_{18}O_{2}N_{8}Br}$	1) Phenylamid d. 3-Brom-4-Oxy-5-Isopropyl-2-Methylphenylazo ameisensäure. Sm. 203° (A. 334, 196 C. 1904 [2] 835).	
$\mathrm{C_{17}H_{18}O_{2}N_{5}Br}$	1) β-Methyl-α-Phenylhydrazid d. α-Oximido-β-[4-Bromphenyllhydrazonbuttersäure. Sm. 205° u. Zers. + [1.4] [1.7]	-
$\mathbf{C_{17}H_{18}O_{3}N_{2}S}$	(A. 328, 74 C. 1903 [2] 249). 2) Inn. Anhydrid d. $\alpha - [\alpha \beta - \text{Di}(4-\text{Methylphenyl})\text{ure}ido]$ äthan $-\beta$. Sulfonsäure. Sm. 204° (M. 25, 683 C. 1904 [2] 1122).	_
$\mathbf{C_{17}H_{18}O_8N_4Br_2}$	1) Di[4-Bromphenythydrazon] d. l-Arabinose. Sm. 171° u. Zers	
$\operatorname*{C_{17}H_{18}O_{4}NBr}_{\cdot}$	(Soc. 83, 1285 C. 1904 [1] 86). 3) Benzoat d. β-Bromeamphoryloxim. Sm. 134° (Soc. 83, 966 C. 1903 [1] 1411 C. 1903 [2] 666).	
	4) Benzoat d. π-Brom-α-Isonitrosocampher. Sm. 185° (Sec. 83, 967)	7
$\mathrm{C_{17}H_{18}O_6N_8Br}$	C. 1903 [1] 1011 C. 1903 [2] 666).	
	1) Dimethylamidobenzol + 4-Brom-3,5-Dinitrobenzol-1-Carbon- säure. Sm. 56° (B. 37, 179 C. 1904 [1] 653).	
$\mathbf{C}_{17}\mathbf{H}_{18}\mathbf{O}_{12}\mathbf{N}_{8}\mathbf{C}\mathbf{I}$	1) Triäthylester d. 5-Chlor-2,4,6-Trinitrobenzol-1-Methylcarbon-säure-3-Methyldicarbonsäure. Sm. 147—148° (Am. 32, 179 C. 1904 [2] 951).	Ļ
$\mathbf{C_{17}H_{19}ONBr_2}$	1) 3,6-Dibrom-4'-Dimethylamido-4-Oxy-2,5-Dimethyldinhenyl	
	methan. Sm. 124°. HBr, HJ (A. 334, 287, 307 C. 1904 [2] 984, 986). 2) 2,6-Dibrom-4'-Dimethylamido-4-Oxy-3,5-Dimethyldiphenylmethan. Sm. 128°. HBr (A. 334, 319 C. 1904 [2] 987)	-
	3) Methyläther d. Methylphenyl-3, 6-Dibrom-4-Oxy-2, 5-Dimethylbenzylamin. Sm. 90—91° (A. 334, 304 C. 1904 [2] 985).	
$\mathbf{C}_{17}\mathbf{H}_{19}\mathbf{ON}_{8}\mathbf{S}_{2}$	 Dimethyläther d. α-Dimerkaptomethylenamido-α-[2-Methylphenyl]-β-Phenylharnstoff. Sm. 98° (B. 36, 1370 C. 1903 [1.249] 	
	1542).	•
	2) Dimethyläther d. α -Dimerkaptomethylenamido- α -[3-Methylphenyl]- β -Phenylharnstoff. Sm. 127° (B. 36, 1373 C. 1903 [1] 1343).	
$\mathbf{C}_{17}\mathbf{H}_{19}\mathbf{O}_{2}\mathbf{NS}$	 Aethylester d. 4-Merkapto-2-Methylphenylamidoameisen-4- Methylphenyläthersäure. Sm. 81° (J. pr. [2] 68, 285 C. 1903 [2] 095) 	
$\mathbf{C_{17}H_{19}O_6N_2P}$	1) Trimethylester d. Phosphorsäuredi [Phonylemid] 2 2/ Diagram	
$C_{17}H_{20}ONBr$	1) 6 - Brom - 4'- Dimethylamido - 4 - Ovy 2 5 Dimethylamido	
$C_{17}H_{20}ONBr_5$	methan. Sm. 155—157° (A. 334, 335 C. 1904 [2] 989). 1) Bromderivat d. Base C ₁₇ H ₂₁ ON (aus α-Oxybenzylidencampher). Sm. 173° (Sac. 83, 108 C. 1903 [1] 202 450).	
$ ext{C}_{17} ext{H}_{20} ext{ON}_2 ext{Br}_2$	1) 3, 6-Dibrom - 6'-Dimethylamido-3'-Amido-4-Ovy 2 5 Dimethylamido-	
$C_{17}H_{20}ON_2S$		
C ₁₇ H ₂₀ O ₂ NCl	Sm. 158° (B. 36, 3856 C. 1904 [1] 90)	
2. 20 2	3) Benzoat d. act. Hydrochlorearvoxim. Sm. 114—115° (B. 18, 2222; A. 270, 179). — *III, 394.	

 $C_{17}H_{20}O_3NP$ 1) Diphenylester d. 1-Piperidylphosphinsäure. Sm. 70° (A. 326, 187 C. 1903 [1] 820). — *IV, 9.

 $\mathbf{C}_{17}\mathbf{H}_{21}\mathbf{O}_{2}\mathbf{NS}$

 $C_{17}H_{22}ON_2S$

 $C_{17}H_{22}O_2ClBr$

 $C_{17}H_{22}O_4N_2S_2$

C17 H22 N3SP

 $C_{17}H_{28}O_8NBr$

1) Aethylester d. α -d-[2-Naphtylsulfonamidopropionyl] amido-C17H20O5N2S essigsäure. Sm. 104° (B. 36, 2596 C. 1903 [2] 618). $C_{17}H_{20}O_5N_4Br_2$

1) 4-Bromphenylhydrazid einer Arabinose-p-Bromphenylhydrazonsäure. Sm. 112° u. Zers. (Soc. 83, 1287° C. 1904 [1] 86). 7) Phenylamid d. β -Phenylpentan-?-Sulfonsäure. Sm. 60

(B. 36, 3690 C. 1903 [2] 1426).

8) Phenylamid d. 1-Aethyl-4-Isopropylbenzol-?-Sulfonsäure. Sm. 110° (92—93°) (B. 36, 1641 C. 1903 [2] 27).

9) Phenylamid d. 1, 3, 5-Trimethyl-2-Aethylbenzol-4-Sulfonsäure. Sm. 123—124° (B. 36, 1644 C. 1903 [2] 27).
1) Phenylthioharnstoff d. α-Anhydropulegonhydroxylamin. Sm.

134° (B. 37, 957 C. 1904 [1] 1087).

1) 1-Menthylester d. 2-Chlor-3-Brombenzol-1-Carbonsäure. Sm. 31 bis 32°; Sd. 237—239°₂₂ (Soc. 85, 1264 C. 1904 [2] 1302).

2) 1-Menthylester d. 2-Chlor-4-Brombenzol-1-Carbonsäure. Sd. 224 bis 226° (Soc. 85, 1264 C. 1904 [2] 1302).

3) 1-Menthylester d. 2-Chlor-5-Brombenzol-1-Carbonsäure. Sm. 34 bis 35°; Sd. 224° (Soc. 85, 1264 C. 1904 [2] 1302).

4) 1-Menthylester d. 2-Chlor-6-Brombenzol-1-Carbonsäure. Sm. 144

bis 145° (Soc. 85, 1264 U. 1904 [2] 1302). 5) 1-Menthylester d. 3-Chlor-2-Brombenzol-1-Carbonsäure. Sd. 227 bis 229 ° (Soc. 85, 1264 C. 1904 [2] 1302).

6) 1-Menthylester d. 3-Chlor-4-Brombenzol-1-Carbonsäure. Sm. 46 bis 47°; Sd. 225-227° (Soc. 85, 1264 C. 1904 [2] 1302).

7) 1-Menthylester d. 3-Chlor-5-Brombenzol-1-Carbonsäure. Sd. 226

bis 228° (Soc. 85, 1264 C. 1904 [2] 1302). 8) 1-Menthylester d. 3-Chlor-6-Brombenzol-1-Carbonsäure. Sm. 36,5

bis 37,5° (Soc. 85, 1264 C. 1904 [2] 1302). 9) 1-Menthylester d. 4-Chlor-2-Brombenzol-1-Carbonsäure. Sd. 221

bis 223° (Soc. 85, 1264 C. 1904 [2] 1302). 10) 1-Menthylester d. 4-Chlor-3-Brombenzol-1-Carbonsäure. Sm. 35

bis 36°; Sd. 223-225° (Soc. 85, 1264 C. 1904 [2] 1302).

4) αε-Di[Phenylsulfonamido]pentan. Sm. 119 ° (B. 37, 3588 C. 1904 [2] 1407).

1) Di[Phenylamid] d. I-Piperidylphosphinsäure. Sm. 199° (A. 326, 215 C. 1903 [1] 822). — *IV, 9.

1) Brommethylat d. Homoatropin. Sm. 180-181 ° (D.R.P. 145996 C 1903 [2] 1226).

1) Aethylester d. 2-Thiocarbonyl-4-Keto-5-Dimethyl-3-Phenyl- $C_{17}H_{29}O_8N_8S$ tetrahydroimidazol-1-α-Amidoisobuttersäure. Sm. 84° (C. 1904 [2] 1028).

 a-[a-Bromisocapronyl]amidoacetylamido-β-Phenylpropionsäure. Sm. 163—164° (B. 37, 3314 C. 1904 [2] 1307).
 Amylamid-Di[Phenylamid] d. Phosphorsäure. Sm. 117° (A. 326, C₁₇H₂₈O₄N₂Br

C₁₇H₈₄ON₈P 174 *C.* 1903 [1] 819).

1) Verbindung (aus Butylchloral u. 4-Dimethylamido-3-Keto-1,3-Di-C₁₇H₂₄O₃N₈Cl₃ methyl-2-Phenyl-2, 3-Dihydropyrazol). See See (D.R.P. 150799 C. 1904 [1] 1379).

1) Chlormethylat d. Anhydromethylcotarninaceton. $2 + PtCl_{4}$ C₁₇H₂₄O₄NCl (B. 37, 213 C. 1904 [1] 590).

1) Jodmethylat $C_{17}H_{24}O_4NJ$ d. Anhydromethylcotarninaceton. Sm. 144° (B. 37, 213 C. 1904 [1] 590).

1) Di[Phenylhydrazid] d. 1-Piperidylthiophosphinsäure. Sm. 158°

 $C_{17}H_{24}N_5SP$ (A. 326, 215 C. 1903 [1] 822).

1) 3 - Oxy-4-[\alpha-Phenylthioureidoisopropyl]-1-Methylhexahydro-C,7H26ON2S benzol. Sm. 132° (B. 37, 2286 C. 1904 [2] 441). C17H26ON5P

1) Amylamid-Di Phenylhydrazid d. Phosphorsäure. Sm. 122° C₁₇H₂₈ON₃P

(A. 326, 174 C. 1903 [1] 819).

1) Methylphenylamid-1,1'-Dipiperidid d. Phosphorsäure. Sm. 86°
(A. 326, 255 C. 1903 [1] 869). — *IV, 10.

2) 2-Methylphenylamid-1,1'-Dipiperidid d. Phosphorsäure. Sm. 146°
(A. 326, 250 C. 1903 [1] 869 [1] 8

(A. 326, 197 C. 1903 [1] 821). — *IV, 10.

1) 4 - Methylphenylmonamid - 1, 1' - Dipiperidid d. Thiophosphor- $C_{17}H_{28}N_3SP$ säure. Sm. 157° (A. 326, 218 C. 1903 [1] 822).

 Chlormethylat d. Diäthylamidoessigsäurebornylester + H₂O. Zers. bei 130° (Ar. 240, 651 C. 1903 [1] 399). C₁₇H₈₂O₂NCl

 Jodmethylat d. Diäthylamidoessigsäurebornylester. Sm. 194° (Ar. 240, 650 C. 1903 [1] 399). $C_{17}H_{32}O_2NJ$

1) Chlormethylat d. Diäthylamidoessigsäurementhylester + H.O. C17H34O2NCl Sm. 185° (Ar. 240, 648 C. 1903 [1] 399).

1) Jodmethylat d. Diäthylamidoessigsäurementhylester. Sm. 1570 C₁₇H₃₄O₂NJ (Ar. 240, 647 C. 1903 [1] 399).

1) Methyldi [Diisobutylamido] jodphosphoniumjodid.

 $C_{17}H_{39}N_2J_2P$ (A. 326, 168 C. 1903 [1] 762).

— 17 V

 $C_{17}H_{16}ON_2Br_4S$ 1) Verbindung (aus Acetyl - sym - Di [2 - Methylphenyl] thioharnstoff). Sm. 141° u. Zers. (B. 36, 3130 C. 1903 [2] 1070).

C₁₈-Gruppe.

C18H12 C18 H14

*5) Truxen (B. 36, 644 C. 1903 [1] 717; B. 36, 645 C. 1903 [1] 718).
*2) 1,4-Diphenylbenzol. Sm. 205° (B. 36, 1410 C. 1903 [1] 1358).
*3) 5,12-Dihydronaphtacen. Sm. 200—204° (B. 36, 553 C. 1903 [1] 720).
7) α-Phenyl-α-[1-Naphyl-then. Sm. 60°; Sd. 350—355° (B. 37, 2757).

C. 1904 [2] 707; B. 37, 4167 C. 1904 [2] 1643).

8) Kohlenwasserstoff (aus Acetylenmagnesiumbromid u. Benzaldehyd). Sm. 213-214° (C. 1904 [2] 943).

2) 2-Methyl-7-[4-Methylphenyl]naphtalin. Sm. 140-1410 (B. 36, 1873 C18H16

C. 1903 [2] 286; B. 36, 3000 C. 1903 [2] 1438).
*1) Reten. Sm. 98° (Ar. 240, 571 C. 1903 [1] 163; B. 36, 4200 C. 1904 [1] 288; Ar. 241, 581 C. 1904 [1] 166; M. 25, 452 C. 1904 [2] 450).
*4) 1,3,5,7-Tetramethylanthracen. Sm. 280° (Soc. 85, 218 C. 1904 [1] C18H18

8) β_{δ} -Diphenyl- β_{δ} -Hexadiën. Sm. 138° (*C. r.* 135, 1348 *C.* 1903 [1] 328). 9) Kohlenwasserstoff (aus Abiëten). Sm. 86° (Soc. 85, 1248 C. 1904 [2] 107, 1308).

11) 2,4,5,2',4',5'-Hexamethylbiphenyl. Sm. 52°; Sd. 320°₇₈₈ (A. 332, 47 C. 1904 [2] 40).
12) 2,4,6,2',4',6'-Hexamethylbiphenyl. Sm. 100,5°; Sd. 296°₇₈₈ (A. 332, $C_{18}H_{22}$

48 C. 1904 [2] 40).

3) Abiëten. Sd. 340—345° 760 (Soc. 85, 1244 C. 1904 [2] 107, 1308). C18H28

*1) Dodekahydroreten (Dihydroabiëten). Sd. 330—340° (Soc. 85, 1247 C. 1904 C18 H30 2] 107, 1308).

*4) Hexaäthylbenzol (*J. pr.* [2] 68, 227 *C.* 1903 [2] 1114).
4) Chaulmoogren. Sd. 193—194% (*Soc.* 85, 859 *C.* 1904 [2] 348, 604).
3) Kohlenwasserstoff (aus Lichesterinsäure). Sd. 190—200% (*Ar.* 241, 21 $C_{18}H_{34}$ C18 H38 C. **1903** [1] 698).

- 18 II -

*2) 5,6,11,12-Naphtacendichinon. Sm. 333° (B. 36, 727 C. 1903 [1] 774).
*3) Chrysoketoncarbonsäure. Sm. 283° (A. 335, 119 C. 1904 [2] 1132).
7) 11-Oxy-5,12-Naphtacenchinon. Sm. 303° (B. 36, 549 C. 1903 [1] 719). C18H8O4 $C_{18}H_{10}O_{8}$

8) Anhydrid d. 2-Phenylnaphtalin-1,22-Dicarbonsäure. Sm. 1460 (A. 335, 118 C. 1904 [2] 1132).

*3) Isoäthindiphtalid. Sm. 345—347° (300°?) (D.R.P. 138324, 138325 C. 1903 [1] 371; B. 36, 721 C. 1903 [1] 773; B. 36, 2328 C. 1903 C18H10O4

*4) 2,2'-Bi-1,3-Diketo-2,3-Dihydroinden. Sm. noch nicht bei 320° (B. 35, 3960 C. 1903 [1] 32).

 $C_{18}H_{10}O_5$ 5) 6,11,?-Trioxy-5,12-Diketo-5,12-Dihydroacenaphten (B. 36, 2329 C. 1903 [2] 442)

6) 6,8,11-Trioxy-5,12-Naphtacenchinon? (B. 36,725 C. 1903 [1] 774).

- 7) P-Trioxynaphtacenchinon. Sm. 300° (B. 36, 727 C. 1903 [1] 774). C 53,7 H 2,5 O 43,8 M. G. 402. C₁₈H₁₀O₅ C18H10O11 1) Diphenylketon-2, 4, 6, 3', 5'-Pentacarbonsäure. Sm. 350-355 (B. 33, 343). - *II, 1231. 7) 1,2-Dioxychrysen. Sm. 152-154° (D.R.P. 151981 C. 1904 [2] 167). C18H12O2 *7) Anhydrid d. $u\delta$ -Diphenyl- $\alpha\gamma$ -Butadiën- $\beta\gamma$ -Dicarbonsäure. Sm. 203 bis 204° (B. 37, 2244 C. 1904 [2] 328; B. 37, 2465 C. 1904 [2] 329). C₁₈H₁₂O₈ *13) Hydrodicumarin. Sm. 262° (B. 35, 4130 C. 1903 [1] 160). C18H12O4 *18) 2-Phenylnaphtalin-1,22-Dicarbonsäure. Sm. 1990. Ag. (A. 335, 114 C. 1904 [2] 1132).
 19) αη-Diketo-β-Phtalyl-α-Phenylbutan (Phtalylbenzoylaceton). Sm. 175° (B. 37, 579 C. 1904 [1] 939).
 20) Biscumarin. Sm. noch nicht bei 275° (B. 37, 1385 C. 1904 [1] 1344).
 21) 2-[1-Oxy-2-Naphtoyl]benzol-1-Carbonsäure. Sm. 186°; Sd. 265 bis 270° (B. 36, 554 C. 1903 [1] 720). 22) 1-[1-Oxy-2-Naphtoyl] benzol-2-Carbonsäure (D. R. P. 134985 C. 1902 [2] 1085; D.R.P. 141025 C. 1903 [1] 1197). 23) Phenanthroxylenacetessigsäure. Sm. 188° (M. 17, 344). — *II, 1105. *1) Calycin (C. 1903 [2] 121).
 *6) Verbindung (aus Formononetin) (M. 24, 148 C. 1903 [1] 1033). $C_{18}H_{12}O_{5}$ 7) Lakton d. 4-Oxy-7-Acetoxyl-2-Phenyl-1,4-Benzpyran-4-Carbonsäure. Sm. 157,5—158° (B. 36, 1949 C. 1903 [2] 296). *3) Diacetat d. 1,2-Dioxy-9,10-Anthrachinon. Sm. 184° (B. 36, 4021 C18H12O6 C. **1904** [1] 184). *9) Diacetat d. 2,3-Dioxy-9,10-Naphtochinon. Sm. 206—207° (B. 36, 2939 C. 1903 [2] 886). 18) Dimethyläther d. Dioxybisbenzaronyl. Sm. 310° (Soc. 83, 1132 C. 1903 [2] 1059).
 Diacetat d. 2,7-Dioxy-9,10-Phenanthrenchinon. Sm. 235—236° u. Zers. (B. 36, 3742 C. 1904 [1] 37). *5) 2,7'-Bichinolyl. Sm. 191—192° (B. 37, 1243 C. 1904 [1] 1362). *6) 6,6'-Bichinolyl. Sm. 181° (A. 332, 80 C. 1904 [2] 43). C18H12N2 *5) Naphtofluoflavin (B. 36, 4047 C. 1904 [1] 184). C₁₈H₁₂N₄ Di[3-Jodphenyl]-1,3-Phenylendijodoniumjodid. Zers. bei 140° (B. 37, 1310 C. 1904 [1] 1340).
 Nitril d. α-Phenylimido-α-[1-Naphtyl]amidoessigsäure. Sm. 121° $C_{18}H_{12}J_2$ C18H18N3 (D.R.P. 153418 C. 1904 [2] 679). 9) Nitril d. α-Phenylimido - α-[2-Naphtyl]amidoessigsäure. Sm. 146° (D. R. P. 153418 C. 1904 [2] 679). 3) β-Brom-α-Phenyl-α-[1-Naphtyl]äthen. Sm. 71—72°; Sd. 240—260°, (B. 37, 2757 C. 1904 [2] 707; B. 37, 4167 C. 1904 [2] 1643).
 4) isom. β-Brom-α-Phenyl-α-[1-Naphtyl]äthen. Sm. 54° (B. 37, 4168) $C_{18}H_{18}Br$ C. 1904 [2] 1643). 5) Aether d. γ-Oxy-γ-Phenylpropin. Sd. 155—160°₁₀ (C. 1904 [2] 943).
 6) 2-Oxy-1,4-Diphenylbenzol. Sm. 194°; Sd. 260° (B. 36, 1408 C. 1903) $C_{18}H_{14}O$ [1] 1358). C18H14O2
- 9) Methylester d. 2-Phenylnaphtalin-1-Carbonsäure. Sm. 75° (A. 335,
- 131 C. 1904 [2] 1134). 10) Methylester d. 2-Phenylnaphtalin-22-Carbonsäure. Sm. 630 (A. 335,
- 131 Anm. C. 1904 [2] 1134). 26) Lakton d. s - Keto- γ -Oxy- $\alpha\delta$ -Diphenyl- α -Penten-s-Carbonsäure. Sm. 179° (d. 333, 267 C. 1904 [2] 1392). C18H14O8
- *5) $\alpha\delta$ Diphenyl $\alpha\gamma$ Butadiën $\beta\gamma$ Dicarbonsäure. Sm. 218° u. Zers. + (CH₃)₂O, + C₂H₄O₂. Na₂ + H₂O, 4Ba + 7H₂O, Ag₂, Piperidinsalz (B. 37, 2241 C. 1904 [2] 328). C18H14O4
 - 33) $\alpha \gamma$ -Diketo- β -Phtalidyl- α -Phenylbutan. C. 1904 [1] 940). Sm. 119° (B. 37, 586
 - 34) αη-Lakton d. η-Oxy-β-Benzoxyl-α-Phenyl-α-Buten-α-Carbonsäure. Sm. 100° (B. 36, 2256 C. 1903 [2] 437).
 - 35) Lakton d. α-Oxy-γ-Keto-αβ-Diphenylbutan-β-Carbonsäure. Sm:115°
 (A. 333, 231 C. 1904 [2] 1389).
 - 36) Diacetat d. $\alpha\beta$ -Di[4-Oxyphenyl] äthin. Sm. 198° (A. 335, 185, 187 C. 1904 [2] 1130).

$\mathbf{C_{18}H_{14}O_{4}}$	37) Diacetat d. 1,2-Dioxyanthracen. Sm. 145° (B. 36, 4021 C. 1904 [1] 168).
	38) Verbindung (aus Acenaphtenchinon u. Acetessigsäureäthylester). Sm. 150° (G. 32 [2] 366 C. 1903 [1] 639).
$C_{18}H_{14}O_5$	
	16) 4-Acetoxyl-3-Methoxylphenanthren-9-Carbonsäure. Sm. 244° (B. 35, 4414 C. 1903 [1] 344).
	17) 3-Acetat d. 3,6-Dioxy-2-Phenyl-1,4-Benzpyron-6-Methyläther. Sm. 164—166° (B. 37, 777 C. 1904 [1] 1156).
	 3-Acetat d. 3,7-Dioxy-2-Phenyl-1,4-Benzpyron-7-Methyläther. Sm. 140° (B. 37, 1181 C. 1904 [1] 1275).
$C_{18}H_{14}O_6$	(Acetylthebaolchinon). Sm. 208° (corr.) (B. 35, 4410 U. 1903 [1] 343).
	13) Dimethyläther d. Dioxybisketocumaran. Sm. 166° (Soc. 83, 1133 C. 1903 [2] 1060).
	14) Acetat d. 1,2,3-Trioxy-9,10-Anthrachinondimethyläther. Sm. 167° (M. 23, 1016 C. 1903 [1] 291).
$\mathbf{C_{18}H_{14}N_{2}}$	 *3) 4-Phenylazobenzol. Sm. 151° (C. 1904 [1] 1491). *7) Nitril d. α-[1-Naphtyl]amido-α-Phenylessigsäure. Sm. 106° (D. R. P. 144536 C. 1903 [2] 779; B. 37, 4080 C. 1904 [2] 1722).
$\mathbf{C}_{18}\mathbf{H}_{15}\mathbf{N}$	9) 2-Phenyl-6-[4-Methylphenyl]pyridin. Sm. 89°. (2HCl, PtCl ₄ + 2H ₂ O), (HCl, AuCl ₃), Pikrat (B. 36, 847 C. 1903 [1] 975).
$\mathbf{C}_{18}\mathbf{H}_{15}\mathbf{N_8}$	12) Diphenyldiazoamidobenzol. Sm. 47°. HCl (C. r. 138, 1104 C. 1904 [1] 1595).
$\mathbf{C_{18}H_{15}P}$	*1) Triphenylphosphin. Sm. 79° (C. r. 139, 675 C. 1904 [2] 1638).
$C_{18}H_{16}O$	1) 1-Keto-3, 5-Diphenyi-1, 2, 3, 4-Tetrahydrobenzol. Sm. $82-83$
	(B. 36, 2133 C. 1903 [2] 366).
	5) s-Keto-α-Phenyl-s-[4-Methylphenyl]-αγ-Pentadiën. Sm. 89° (R. 36)
	846 C. 1903 [1] 975).
	6) s-Keto-s-Phenyl- α -[4-Methylphenyl]- $\alpha \alpha$ -Pentadiën. Sm. 1000
~ ^	(B. 36, 851 C. 1903 [1] 975).
$\mathbf{C_{18}H_{16}O_{2}}$	*4) Retenchinon (B. 36, 4202 Anm. C. 1904 [1] 289).
	*10) 1-Oxy-3-Keto-4-Methyl-1, 5-Diphenyl-2, 3-Dihydro-R-Penten.
	Sm. 118° (133,5°) (Soc. 83, 276 C. 1903 [1] 569, 877; Soc. 83, 289
	U. 19U3 [1] 509, 877).
	13) Dimethyläther d. 3,4-Dioxy-P-Aethenylphenanthren. Sm. 80°.
	Pikrat (B. 35, 4391 C. 1903 [1] 339).
	14) Methyläther d. ε -Keto- ε -Phenyl- α -[4-Oxyphenyl]- $\alpha\gamma$ -Pentadiën. Sm. 118° (B. 36, 854 C. 1903 [1] 976).
	15) $\alpha \delta$ -Diphenyl- $\alpha \gamma$ -Pentadiën- ε -Carbonsäure. Sm. 190°. $+$ CaHa
	(Sm. 140°), Ag (B. 36, 1407 C. 1903 [11 1358)
	10) Lakton d. α-Oxy-αβ-Diphenyl-γ-Methyl-α-Buten-γ-Carbonesure
	Sm. 105-100° (80c. 83, 308 C. 1903 [1] 879)
Þ	 Methylester d. αδ-Diphenyl-αη-Butadiën-α-Carbonsäure. Sm. S2 – 83° pr. [2] 68, 527 C. 1904 [1] 451).
$\mathbf{C_{18}H_{18}O_8}$	*2) Methyläther d. Thebenol. Sm. 135° (B. 37, 2790 C. 1904 [2] 716).
	1) Hearty tester d. Delizy ildendenzo viessigsalire. Sm (12
	120 0. 1303 [2] 34; G. 33 [2] 146 G. 1903 [2] 1270)
	10) Analyaria d. cis-a0-Diphenvibutan-8%-Dicarbongiama (11046
	(D. 37, 2000 C.·1904 [2] 524).
0.77.6	 17) Anhydrid d. trans-αδ-Diphenylbutan-βγ-Dicarbonsäure. Sm. 155° (B. 37, 2667 C. 1904 [2] 524).
$\mathbf{C_{18}H_{16}O_{4}}$	*2) 7-Oxy-4-Methylen-5-Methyl-2-[4,6-Dioxy-2-Methylphenyl]-1,4-
	2022 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	*18) β -Isoatropasäure (β -Isococasäure). $+ C_0H_6$ ($J. pr. [2]$ 66, 420 $C.$ 1903 [1] 528).
	*20) α-Truxillsäure (Cocasäure). Sm. 266—267° (J. pr. [2] 66, 419 C. 1903
•	*32) Diacetat d. $\alpha\beta$ -Di[4-Oxyphenylläthen. Sm 2130 (4 335 100

*32) Diacetat d. $\alpha\beta$ -Di[4-Oxyphenyl]äthen. Sm. 213° (A. 335, 189 C. 1904 [2] 1131). *44) Diacetat d. isom. $\alpha\beta$ -Dioxy- $\alpha\beta$ -Diphenyläthen. Sm. 118° (Am. 29, 607 C. 1903 [2] 198).

47) δ-Keto-βγ-Diphenylpentan-βγ-Oxyd-α-Carbonsäure. Sm. 131—132°
u. Zers. Ag (Noc. 83, 291 C. 1903 [1] 877).
48) βδ-Diphenyl-α-Buten-αγ-Dicarbonsäure (Soc. 75, 250). — *II, 1101. C18H16O4 49) αγ-Diketo-β-Phtalidyl-α-Phenylbutan-β²-Carbonsäure. Sm. 136°
 (B. 37, 587 C. 1904 [1] 940). 50) Dibenzylester d. Fumarsäure. Sm. 64°; Sd. 239°, (B. 35, 4089) C. 1903 [1] 75). 51) Dibenzylester d. Maleïnsäure. Sd. 241°₁₄ (B. 35, 4090 C. 1903 [1] 75). 52) γ-Acetat d. αγ-Dioxy-δ-Keto-αε-Diphenyl-α-Buten. Sm. 98° (B. 36, 2419 C. 1903 [2] 501). 53) Diacetat d. Verbindung $C_{14}H_{12}O_2$ (A. 325, 28 C. 1903 [1] 460). *19) Ononetin (M. 25, 566 C. 1904 [2] 907). C18H16O5 21) 3,4,6-Trioxyphenanthrentrimethyläther-9-Carbonsäure. Sm. 2030 (B. 35, 4406 C. 1903 [1] 342). Sm. 219-2210 22) ?-Trioxyphenanthrencarbontrimethyläthersäure. (B. 37, 2790 C. 1904 [2] 716). 23) Aethylester d. 4,7-Dioxy-2-Phenyl-1,4-Benzpyran-4-Carbonsäure. Pikrat (B. 36, 1950 C. 1903 [2] 296). 24) Diacetat d. α -Keto- $\alpha\beta$ -Di[4-Oxyphenyl]äthan. Sm. 125° (A. 325, 76 C. 1903 [1] 463).
13) 2³, 2⁴, 6 - Trimethyläther d. 3, 6 - Dioxy - 2 - [3, 4 - Dioxyphenyl] - 1, 4-Benzpyron. Sm. 189—190° (B. 37, 780 C. 1904 [1] 1156).
14) 2⁴, 5, 7-Trimethyläther d. 3, 5, 7-Trioxy-2-[4-Oxyphenyl]-1, 4-Benzpyron + H₂O. Sm. 151—152° (wasserfrei) (B. 37, 2098 C. 1904 [21] 121). C18H16O6 [2] 121). 15) 2²,7,8-Trimethyläther d. 3,7,8-Trioxy-2-[2-Oxyphenyl]-1,4-Benzpyron. Sm. 212—214° (B. 37, 2630 C. 1904 [2] 539).
16) 2³,7,8-Trimethyläther d. 3,7,8-Trioxy-2-[3-Oxyphenyl]-1,4-Benzpyron. Sm. 188—189° (B. 37, 2633 C. 1904 [2] 540). 17) bim. o-Cumarsäure. Sm. noch nicht bei 275° (B. 37, 1384 C. 1904 [1] 1343). *2) d-Usninsäure. Sm. 191,4° (C. 1903 [2] 121; A. 325, 341 C. 1903 C18H16O7 [1] 722). *4) Usnolsäure. Sm. 206—210° (*J. pr.* [2] 68, 7 *C.* 1903 [2] 510). *6) I-Usninsäure. Sm. 191,4° (*A.* 325, 341 *C.* 1903 [1] 722). *7) i-Usninsäure (*A.* 325, 339 *C.* 1903 [1] 722). 9) Trimethyläther d. Quercetin. Sm. 154° (*Ar.* 242, 241 *C.* 1904 *2) Tetramethyläther d. 1,2,3,5,6,7 - Hexaoxy - 9,10 - Anthrachinon. C18H16O8 Sm. 235—237° (C. 1904 [2] 709). *7) 4-Phenyl-s-Diphenylhydrazin. Sm. 122° (C. 1904 [1] 1491). 5) 3,6-Dimethyl-1,4-Diphenylbipyrazol. Sm. 163° (B. 36, 528 C. 1903 C18H16N2 $C_{18}H_{16}N_4$ [1] 642). 1) 4-Aethylphenyl-1-Naphtyljodoniumjodid. Sm. 48° (A. 327, 299 $C_{18}H_{18}J_{2}$ C. 1903 [2] 352). 22) β -Keto- $\gamma\delta$ -Diphenylhexan- $\gamma\delta$ -Oxyd. Sm. 98—99° (Soc. 83, 297 C18H18O2 C. **1903** [1] 878). 23) o-Dioxyreten (D.R.P. 151981 C. 1904 [2] 167). 24) Phenyläther d. α-Oxy-γ-Keto-α-Phenyl-α-Hexen. Sm. 55°; Sd. 206 bis 209°,1 (C. r. 139, 210 C. 1904 [2] 649).
 25) Lakton d. δ-Oxy-γδ-Diphenyl-β-Methylbutan-β-Carbonsäure. Sm. 106° (Soc. 83, 311 C. 1903 [1] 880.
 26) Proport d. (2012) 2012 2013 (2012) 20 26) Benzoat d. γ -[2-Oxyphenyl]- β -Penten. Sd. 212—213,5% (Bl. [3] 29, 354 C. 1903 [1] 1222). 20) 2 - Methoxylphenyläther d. α - Oxy - γ - Keto - α - Phenyl - α - Penten. Sm. 76 - 77°; Sd. 231°₁₇ (C. r. 139, 210 C. 1904 [2] 649).
 21) δ-Keto - γδ-Diphenyl - β-Methylbutan - β-Carbonsäure (α-Desylisobuttersäure). Sm. 218° u. Zers. Ag (Soc. 83, 309 C. 1903 [1] 879). $C_{18}H_{18}O_{8}$ *11) Dimethylester d. αβ-Diphenyläthan-2,2'-Dicarbonsäure. Sm. 103° (B. 37, 3219 C. 1904 [2] 1120). C18H18O4

*20) Dibenzylester d. Bernsteinsäure. Sm. 45°; Sd. 238°14 (B. 35, 4078

C. 1903 [1] 74).

39) Tetramethyläther d. αβ-Di[3,4-Dioxyphenyl]äthin. Sm. 156° C₁₈H₁₈O₄ (A. 329, 45 C. 1903 [2] 1448) 40) Ceropten. Sm. 135° (C. 1904 [1] 39). 41) r-α-Oxyphenylessigeugenoläthersäure. Sm 101-102 (D.R.P. 82924). **--** *II, 923. 42) r-α-Oxyphenylessigisoeugenoläthersäure. Sm. 91-92° (D.R.P. 82 924). - *II, 923. 43) 1-Oxymethylbenzoleugenoläther-4-Carbonsäure. Sm. 1410 (D.R.P. 82 924). - *II, 927 44) 1-Oxymethylbenzolisoeugenoläther-4-Carbonsäure. Sm. 185° (D.R.P. 82924). — *II, 927. 45) cis- $\alpha \delta$ -Diphenylbutan- $\beta \gamma$ -Dicarbonsäure. Sm. 203° u. Zers. (C. 1900 [2] 562; B. 37, 2666 C. 1904 [2] 524). — *II, 1098. 46) trans-αδ-Diphenylbutan-βγ-Dicarbonsäure. Sm. 204° (B. 37, 2667 C. 1904 [2] 524). — *II, 1098.
 Dimethylster d. αβ-Diphenyläthan-4,4'-Dicarbonsäure. Sm. 119° (B. 37, 3216 C. 1904 [2] 1120). 48) Aethylester d. β -Oxy- β -Phenylakryl-3-Methoxylphenyläthersäure. Sd. 232—234°₁₂ (Soc. 83, 1134 C. 1903 [2] 1060). 49) Di[2-Methylphenylester] d. Bernsteinsäure. Sd. 238-240% (B. 35, 4079 C. 1903 [1] 74). 50) Di[3-Methylphenylester] d. Bernsteinsäure. Sm. 60° (B. 35, 4080 C. 1903 [1] 74). 51) Di[4-Methylphenylester] d. Bernsteinsäure. Sm. 121° (B. 35, 4080 C. 1903 [1] 74). 12) Dimethylenäther d. Di $[\alpha$ -3,4-Dioxyphenyläthyl]äther. Sm. 111° $C_{18}H_{18}O_{5}$ (Bl. [3] 25, 275; G. 34 [1] 372 C. 1904 [2] 214; G. 34 [2] 171 C. 1904 [2] 648, 982). 13) $\alpha^2, \gamma^3, \gamma^4$ -Trimethyläther d. γ -Keto- α -[2-Oxyphenyl]- γ -[2, 3, 4-Trioxyphenyl] propen. Sm. 105° (B. 37, 2628 C. 1904 [2] 539). 14) $\alpha^3, \gamma^5, \gamma^4$ -Trimethyläther d. γ -Keto- α -[3-Oxyphenyl]- γ -[2,3,4-Trioxyphenyl] propen. Sm. 127—128° (B. 37, 2631 C. 1904 [2] 539). 15) α⁴, γ², γ⁴-Trimethyläther d. γ-Keto-γ-[2,4,6-Trioxyphenyl]-α-[4-Oxyphenyl] propen. Sm. 113° (B. 37, 792 C. 1904 [1] 1158).
 16) Trimethyläther d. 6-Oxy-2-[3,4-Dioxyphenyl]-2,3-Dihydro-1,4-Benzpyron. Sm. 175-176° (B. 37, 779 C. 1904 [1] 1156). 17) Trimethyläther d. 5,7-Dioxy-2-[4-Oxyphenyl]-2,3-Dihydro-1,4-Benzpyron. Sm. 125° (B. 37, 2097 C. 1904 [2] 121). 18) Trimethyläther d. 7,8-Dioxy-2-[2-Oxyphenyl]-2,3-Dihydro-1,4-Benzpyron. Sm. 112° (B. 37, 2629 C. 1904 [2] 539). 19) Trimethyläther d. 7,8-Dioxy-2-[3-Oxyphenyl]-2,3-Dihydro-1,4-Benzpyron. Sm. 79° (B. 37, 2032 C. 1904 [2] 539). 20) Trimethyläther d. Butein. Sm. 156—158° (C. 1904 [2] 451).
21) Trimethyläther d. Butin. Sm. 119—121° (C. 1904 [2] 451).
*11) Di[2-Methoxylphenylester] d. Bernsteinsäure. Sm. 135° (B. 35, C18H18O8 4083 C. 1903 [1] 74). 16) Tetramethyläther d. $\alpha\beta$ -Diketo- $\alpha\beta$ -Di[3,4-Dioxyphenyl]äthan. Sm. 219-220° (A. 329, 53 C. 1903 [2] 1448). 17) αβ-Dioxy-αβ-Diphenylbutan-αη-Dicarbonsäure. Ag. (Soc. 83, 293 C. 1903 [1] 877). 18) αδ-Dioxy-αδ-Diphenylbutan-2,2'-Dicarbonsäure (o-Aethylenbenzhydrylcarbonsäure) (B. 10, 2209; 31, 1579). — II, 2023; *II, 1182. 4) Usnidinsäure + 2H₂O. Sm. 195° u. Zers. (J. pr. [2] 63, 526). — *II, C18H18O8 1205. $C_{18}H_{18}N_2$ 9) 1-Diphenylmethyl-3,5-Dimethylpyrazol. Sm. 108—109° (J. pr. [2] 67, 172 Č. 1903 [1] 874). *1) 1,4 - Di [2,5 - Diamidophenyl] -1,4 - Azophenylen. C18 H18 N6 Sm. 238-238,5° u. Zers. (B. 37, 1506 C. 1904 [1] 1414). C18H20O 6) Benzyläther d. γ -[2-Oxyphenyl]- β -Penten. Sd. 192—193° (Bl. [3] 29, 354 C. 1903 [1] 1222). *10) Benzoat d. 4-Oxy-1-tert. Amylbenzol. Sm. 60° (A. 327, 220 C. 1903 C18H20O2 [1] 1408). 17) $\alpha \beta$ -Di[4-Oxy-2,5-Dimethylphenyl]äthen. Sm. 320 – 330° (B. 36, 1892 *O*. **1903** [2] 291).

- 18) $\gamma \delta$ -Diphenyl- β -Methylbutan- β -Carbonsäure. Sm. 172°. Ag (Soc. 83, 313 C. 1903 [1] 880). $C_{18}^{r}H_{20}O_{2}$ *5) α-Benzoat d. Oxymethylencampher (C. r. 136, 1223 C. 1903 [2] 116). $C_{18}H_{20}O_{3}$ 11) Methylenäther d. d-3,4 - Dioxybenzylidencampher. (C. r. 128, 1273; 130, 222). — *III, 389. 12) δ -Oxy- $\gamma\delta$ -Diphenyl- β -Methylbutan- β -Carbonsäure (Soc. 83, 312) C. 1903 [1] 880).

 13) Aldehyd d. 3,4 - Dioxybenzol - 3 - Isobutyläther - 4 - Benzyläther-1-Carbonsäure. Sm. 42,5° (D.R.P. 85196). - *III, 75. 5) Tetramethyläther d. α -Keto- $\alpha\beta$ -Di[3,4-Dioxyphenyl]äthan. Sm. 108° C18H20O5 (A. 329, 48 C. 1903 [2] 1448). 3) Diäthylester d. 2,4,6-Triacetoxylbenzol-1,3-Dicarbonsäure. Sm. 960 C18H20O10 (75—76°) (B. 21, 1768; Soc. 85, 167 C. 1904 [1] 163, 722).

 4) Pentaacetat d. 2,4,6 - Trioxy - 3 - Dioxymethyl - 1 - Methylbenzol. Sm. 144—145° (M. 24, 878 C. 1904 [1] 369). 8) 1 - $[\alpha$ - Phenylimidobenzyl] hexahydropyridin. Fl. (2HCl, PtCl₄), C18H20N2 Pikrat (B. 37, 2684 C. 1904 [2] 521).
 2) 2-Phenyl-6-[4-Methylphenyl]hexahydropyridin. Sm. 41,5°; Sd. 237 C18H21N bis 239°_{44} . (2 HCl, PtCl₄ + 2 H₂O), (HCl, AuCl₈), HBr, HJ, H₂SO₄, Pikrat (B. 36, 848 C. 1903 [1] 975). 3) isom. 2-Phenyl-6-[4-Methylphenyl]hexahydropyridin. Sd. 218 bis 220_{20}° . (2 HCl, PtCl₄ + 2 H₂O), (HCl, AuCl₃), HBr, Pikrat (B. 36, 849) O. 1903 [1] 975).
 1) ?-Joddi[4-Propylphenyl]jodoniumjodid. Sm. 38° u. Zers. (A. 327, $C_{18}H_{21}J_{8}$ 316 C. 1903 [2] 354). 2) ?-Jod-4,4'-Dimethyl-2,2'-Diäthyldiphenyljodoniumjodid. Sm. 145° u. Zers. (J. pr. [2] 69, 442 C. 1904 [2] 589). *2) 5,5'-Dioxy-1,2,4,1',2',4'-Hexamethyl-P-Biphenyl. Sm. 172,5—173,5° $C_{18}H_{22}O_2$ (B. 36, 2038 C. 1903 [2] 360).
 *3) Diäthyläther d. 4, 4'-Dioxy-3, 3'-Dimethylbiphenyl. Sm. 154° (Am. 31, 125 C. 1904 [1] 809). *5) Diphenyläther d. αζ-Dioxyhexan. Sm. 83° (C. r. 136, 97 C. 1903 [1] 455). 15) Methyläther d. i-4-Oxybenzylidencampher. Sm. 99° (C. r. 132, 1574). — *III, 389. 4) 3,4-Methylenäther d. 3-Keto-2-[3,4-Dioxybenzyliden]-4-Iso-propyl-1-Methylhexahydrobenzol. Sd. oberh. 220% u. Zers. (C. 1904) C18H22O2 [2] 1046). 5) d-Bornylester d. Benzolketocarbonsäure. Sm. 78 ° (P. Ch. S. No. 230). - *III, 338.
 - 15) l-Monolinaloolester d. Benzol-1, 2-Dicarbonsäure. Fl. (B. 31, 839). C18H22O4 - *III, *346.*
 - *4) Aethylester d. isom. s-Acetyl- $\beta\zeta$ -Diketo- δ -Phenylheptan- γ -Carbon-C₁₈H₂₂O₅ säure. Sm. 123° (B. 36, 2152 C. 1903 [2] 369).
 - 3) Triäthylester d. 6-Acetoxylbenzol-1,3-Dicarbonsäure-4-Methylcarbonsäure. Sm. 59° (B. 37, 2120 C. 1904 [2] 438).
 4) Tetraacetat d. 2,3,5,6-Tetraoxy-1,4-Diäthylbenzol. Sm. 213° (B. 87, 2387 C. 1904 [2] 307). C18 H22 O8
 - *16) α -Phenylimido- γ -Phenylamido- β -Methylpentan. HCl, 2HCl (A. 329, $C_{18}H_{22}N_2$ 215 C. 1903 [2] 1427). 24) 1,4-Anhydrid d. 4-Aethylamido-1-Oxymethylbenzol. Sm. 79-80°.
 - 2HCl (M. 23, 990 C. 1903 [1] 289). 25) 2,5-Dimethylbenzyliden-2,5-Dimethylbenzylhydrazin. Sm. 74—78° (C. 1903 [1] 141).
 - 14) Di[2-Dimethylamidobenzyliden]hydrazin. Sm. 148-149° (M. 25, C18H22N4 373 C. **1904** [2] 322).
 - 2) Di[4-Propylphenyl]jodoniumjodid. Sm. 135—140°. + J₂ (A. 327, $C_{18}H_{22}J_2$ 311 *O.* **1903** [2] 353). 3) 4,4'-Dimethyl-2,2'-Diäthyldiphenyljodoniumjodid (J. pr. [2] 69, 440
 - C. 1904 [2] 589).
 - 2) Isobutyldibenzylamin. Sd. 170—173°₁₀ (Soc. 83, 1413 C. 1904 [1] 438). 3) Di [2, 5-Dimethylbenzyl]amin. HCl, (2HCl, HgCl₂), (2HCl, PtCl₄), $C_{18}H_{23}N$ HNO₈, Pikrat (O. 1903 [2] 1441).

18 II.	428
$\mathbf{C_{18}H_{23}N_3}$	4) 4-[4-Methyläthylamidobenzyliden]amido-1-Dimethylamidobenzol. Sm. 216° (B. 37, 861 C. 1904 [1] 1206).
	5) Verbindung (aus Silicotetraphenylamid u. Senfölen). (2HCl, PtCl ₄) (Soc. 83, 258 C. 1903 [1] 572, 875).
$\mathbf{C_{18}H_{24}O_{2}}$	Methylather d. 1-3-Keto-2-[4-Oxybenzyliden]-4-1sopropyl-1- Methylhexahydrobenzol (1-Anisylidenmenthon). Sm. 115—1160
$\mathbf{C_{18}H_{24}O_{3}}$	 (C. 1904 [2] 1046). 7) 1-Menthylester d. Benzolketocarbonsäure. Sm. 73—74° (Soc. 85, 1254 C. 1904 [2] 1304).
$C_{18}H_{24}O_4$	8) α -Dicamphylsäure. Sm. 230°. Ca + 2H ₂ O, Ag ₂ (Soc. 83, 862 α . 1903 [2] 573).
$\mathbf{C_{18}H_{24}O_{6}}$	 Dioxy-α-Dicamphylsäure. Sm. 255—257° u. Zers. Ag (Soc. 83, 864 C. 1903 [2] 573).
	8) $\alpha \gamma$ -Dibutyrat- β -Benzoat d. $\alpha \beta \gamma$ -Trioxypropan. Fl. (C. 1903 [1] 134).
$C_{18}H_{24}O_{7}$	 Diäthylester d. 3,5-Diäthoxylphenoxylfumarsäure. Sd. 238—240 16 (Soc. 83, 1134 C. 1903 [2] 1060).
C ₁₈ H ₂₆ O ₂	 Benzoat d. β-Oxy-α-oder-β-Undeken. Sd. 233—235% (Soc. 83, 149 1903 [1] 71, 436).
$\mathbf{C_{18}H_{26}O_3}$	 1-Menthylester d. d-α-Oxyphenylessigsäure. Sm. 99—100° (Soc. 85, 1254 C. 1904 [2] 1304).
	4) l-Menthylester d. l-α-Oxyphenylessigsäure. Sm. 81—82° (Soc. 85, 1254 C. 1904 [2] 1304).
	 5) 1-Menthylester d. r-α-Oxyphenylessigsäure. Sm. 85—86°; Sd. 225°₃₀ (Soc. 85, 383 C. 1904 [1] 940, 1419).
C ₁₈ H ₂₆ O ₄	7) Diacetat d. $\alpha \gamma$ -Dioxy- α -[4-Isopropylphenyl]- β -Methylpropan. Sd. 182 $^{\circ}_{10.5}$ (M. 24, 254 C. 1903 [2] 242).
$C_{18}H_{26}O_{12}$	9) d-Idithexaacetat. Sm. 121° (C. 1904 [2] 1291).
$\mathbf{C}_{18}\mathbf{H}_{28}\mathbf{O}$	*2) Undekylphenylketon (C. 1904 [1] 1259).
$\mathbf{C}_{18}\mathbf{H}_{28}\mathbf{O}_2$	8) Acetat d. Verb. C ₁₈ H ₂₈ O (aus Caryophyllen u. Formaldehyd). Sd. 185° ₁₆ (C. r. 138, 1228 C. 1904 [2] 106).
C ₁₈ H ₂₈ O ₄	 Säure (aus α-Camphylsäure). Sd. 270—290°₄₅ (Soc. 83, 855 C. 1903 [2] 572).
	 Aethylester d. Isovalerylcamphocarbonsäure. Sd. 174-176°₁₈ (B. 35, 4037 C. 1903 [1] 82).
	 Isamylester d. Acetylcamphocarbonsäure. Sd. 170—171°_{10,5} (B. 35, 4036 C. 1903 [1] 81).
C ₁₈ H ₂₈ O ₆	 Aethylester d. 6-Keto-4-[α-Acetoxylisopropyl¹hexahydrobenzol- 2-Acetessigsäure (Acetat d. Oxympanonylacetessigsäureäthylester). Sm. 133° (B. 37, 1669 C. 1904 [1] 1606).
$\mathbf{C_{18}H_{28}O_{10}} \\ \mathbf{C_{18}H_{28}N_{2}}$	 3) Barringtonin. Zers. oberh. 200° (C. 1903 [2] 841). 3) 1,3-Di[1-Piperidylmethyl]benzol. Fl. 2HCl, (2HCl, PtCl₄), 2 Pikrat (B. 36, 1677 C. 1903 [2] 29).
$C_{18}H_{30}O$	6) Verbindung (aus Asclepias syriaca L.) (J. pr. [2] 68, 407 C. 1904 [1] 105).
$\mathbf{C}_{18}\mathbf{H}_{80}\mathbf{O}_{8}$	6) Methyläthylakrylat d. Glykol $C_{12}H_{22}O_2$. Sd. $198-205_{11}^{6}$ (M. 24 , 160 C. 1903 [1] 957).
$C_{18}H_{80}O_4$	C 69,7 — \hat{H} 9,7 — O 20,6 — M. G. 310. 1) Dihydroembeliasäure. Sm. 116—117° (Ar . 238, 22). — *II, 1235.
$\mathbf{C}_{18}\mathbf{H}_{80}\mathbf{O}_{5}$	*2) a-Lichesterinsäure (1 mr [2] 68 33 (1 1903 [2] 512)
	*4) γ-Lichesterinsäure (J. pr. [2] 68, 36 C. 1903 [2] 512). 6) Proto-α-Lichesterinsäure. Sm. 106—107°. Ba, Ag (J. pr. [2] 68, 29 C. 1903 [2] 511).
C ₁₈ H ₃₂ O ₂	*3) Leinölsäure (<i>C. r.</i> 137, 69 <i>C.</i> 1903 [2] 552). 10) Chaulmoograsäure. Sm. 68°, Sd. 247—248° ₂₀ . NH ₄ , K, Mg + 2 H ₂ (), Ca, Sr, Ba, Zn, Pb, Mn, Fe, Cu, Ag (Soc. 85, 846 <i>C.</i> 1904 [2] 348, 603; Soc. 85, 851 <i>C.</i> 1904 [2] 348, 603;

Ca, Sr, Ba, Zh, Fb, Mh, Fe, Cu, Ag (Soc. 85, 846 C. 1904 [2] 348, 603; Soc. 85, 851 C. 1904 [2] 348, 604.

11) Elaeomargarinsäure. Sm. 43—44° (Soc. 83, 1042 C. 1903 [2] 657).

12) Lakton d. Lichesterylsäure. Sm. 41—42° (Ar. 241, 8 C. 1903 [1] 697).

13) l-Bornylester d. Caprylsäure. Sd. 175°₁₅ (B. 31, 1775). — *III, 339.

14) Verbindung (aus Chaulmoograsamen). Sd. 214—215°₁₈ (Soc. 85, 842 C. 1904 [2] 604).

*1) Stearoxylsäure. Sm. 83, 84° (R. 28, 2600 C. 1902 (N. 200).

*1) Stearoxylsäure. Sm. 83—84° (B. 36, 2660 C. 1903 [2] 826).
7) Triäthylester d. βζ-Dimethylheptan-γγδ-Tricarbonsäure. Sd. 188 bis 190°₁₅ (Am. 30, 240 C. 1903 [2] 935). $C_{18}H_{32}O_4$ C18H32O6

 $C_{18}H_{84}O$ *2) z-Keto-9-Methyl-9-Oktadeken. Sd. 184—187°, (B. 36, 2558 C. 1903 [2] 655). 3) Chaulmoogrylalkohol. Sm. 36° (Soc. 85, 857 C. 1904 [2] 348, 604). *2) Elaïdinsäure (C. 1903 [1] 319). *3) Oelsäure (C. 1903 [1] 319; 1903 [2] 1418). C18H84O2 *4) Isoölsäure (θ-Heptadeken-q-Carbonsäure) (C. 1903 [1] 826).
*8) Lakton d. η-Oxyheptadekan-α-Carbonsäure (C. 1903 [1] 826). 11) α-Heptadeken-α-Carbonsäure. Sm. 59°. Na. Ca + H₀O. Ba. Ag (G. 34 [2] 83 C. 1904 [2] 694). 12) Dihydrochaulmoograsäure. Sm. 71-72°; Sd. 248°, (Soc. 85, 857) C. 1904 [2] 348, 604). 13) Säure (aus Hefefett). Sd. 210—220°₁₂ (*H*. 38, 10 *C*. 1903 [1] 1429). 14) 1-Menthylester d. Caprylsäure. Sd. 175°₁₅ (*B*. 31, 364). — *III, 334. *9) ι-Ketoheptadekan-α-Carbonsäure. Sm. 74—76°. Na, Ba (*C*. 1904 [1] C18HRAO8 1331). 17) γ-Ketoheptadekan-α-Carbonsäure. Sm. 97°. Ca (C. 1903 [1] 826;
 J. pr. [2] 67, 418 C. 1903 [1] 1405). 18) n-Ketoheptadekan-α-Carbonsäure. Sm. 65°. Ca (C. 1903 [1] 825; J. pr. [2] 67, 416 C. 1903 [1] 1404).
19) Lichesterylsäure. Sm. 83—84° (Ar. 241, 10 C. 1903 [1] 697). 20) Säure (aus Dioxystearinsäure vom Sm. 136,5°). Fl. (J. pr. [2] 67, 369 C. 1903 [1] 1404). 21) Aethylester d. ί-Keto-η-Methyltetradekan-θ-Carbonsäure. Sd. 183 bis 184°₁₁ (Bl. [3] 31, 596 C. 1904 [2] 26). 15) isom. Ketooxystearinsäure. Sm. 63-64°. Ag (B. 36, 2658 C. 1903 C, H, O, [2] 826). 16) Dioxydihydrochaulmoograsäure. Sm. 102° (Soc. 85, 859 C. 1904 [2] 349, 604). 4) Diisoamylester d. Homopilomalsäure. Sd. 192% (B. 34, 732; 35, C18H34O5 200). — *III, 687. 4) Alkohol (aus Oelsäure). Sd. 207°₁₃ (C. r. 137, 328 C. 1903 [2] 710). *1) Stearinsäure (B. 36, 1050 C. 1903 [1] 1148). *6) Aethylester d. Palmitinsäure. Sd. 122°₀ (B. 36, 4340 C. 1904 [1] $C_{18}H_{36}O$ C18H36O2 433). *9) Oxyd (aus $\alpha \gamma$ -Dioxy- $\beta \beta$ s-Trimethylhexan). Sd. 244—246° u. Zers. (M. 24, 531 *C.* **1903** [2] 869). 10) λ-Isostearinsäure. Sm. 49,5—50,5°. Na, Ba, Ag (Ar. 241, 16 C. 1903 [1] 698). 11) Methylester d. Margarinsäure. Sm. 29° (Soc. 85, 837 C. 1904 [2] 509). *1) α -Oxystearinsäure. Sm. 84—85° (90—91°) (C. 1903 [1] 825; J. pr. [2] 67, 416 C. 1903 [1] 1404; G. 34 [2] 81 C. 1904 [2] 694). $C_{18}H_{86}O_{8}$ *2) ι - Oxyheptadekan- α -Carbonsäure. Sm. 83–85° (C. 1908 [1] 825; J. pr. [2] 67, 415 C. 1903 [1] 1404). 7) α -Oxyheptadekan- α -Carbonsäure. Sm. 91–92° (Soc. 85, 830 C. 1904). [2] 509). *3) Dioxystearinsäure (aus Oelsäure). Sm. 136,5° (C. 1903 [1] 319; B. 36, 1051 C. 1903 [1] 1148; Ar. 240, 660 C. 1903 [1] 406; J. pr. [2] 67, 290 C. 1903 [1] 1404; J. pr. [2] 67, 359 C. 1903 [1] 1404; Ar. 242, 22 C. 1904 [1] 734). C18H86O4 *4) Dioxystearinsäure (aus Elaïdinsäure). Sm. 99-100° (C. 1903 [1] 319; J. pr. [2] 67, 296 C. 1903 [1] 1404; J. pr. [2] 67, 362 C. 1903 [1] 1404). *1) Sativinsäure. Sm. 173° (B. 36, 1051 C. 1903 [1] 1148). *1) Linusinsäure (B. 36, 1051 C. 1903 [1] 1148). C18H36O6 C18H86O8 *1) a-Oxyoktadekan (C. 1904 [1] 822). C 51,9 — H 9,6 — O 38,4 — M. G. 416. C18H88O C18H40O10 1) Verbindung (aus Camphersäure u. Isobuttersäure) (R. 21, 354 C. 1903 [1] 151).

- 18 III -

C₁₈H₈O₇N₂ C 59,3 — H 2,2 — O 30,8 — N 7,7 — M. G. 364. 1) 6,P-Dinitro-11-Oxy-5,12-Diketo-5,12-Dihydronaphta

6, P-Dinitro-II-Oxy-5, 12-Diketo-5, 12-Dihydronaphtacen. Sm. 260°
 36, 2327 C. 1903 [2] 442).

C 56.8 - H 2.1 - O 33.7 - N 7.4 - M. G. 380. $C_{18}H_8O_8N_2$ 1) ?-Dinitro-6,11-Dioxy-5,12-Diketo-5,12-Dihydroacenaphten (B. 36. 2329 C. 1903 [2] 442). C 67.7 - H 2.8 - O 25.1 - N 4.4 - M. G. 319. $C_{18}H_9O_5N$ 1) 6 - Nitro - 11 - Oxy - 5, 12 - Diketo - 5, 12 - Dihydronaphtacen. Sm. 274° (B. 36, 2326 C. 1903 [2] 442). 1) Verbindung (aus Phenanthrenchinon u. Thiophen) (B. 37, 3352 C. 1904 C18H10OS [2] 1058). 1) Diacetat d. $\alpha\beta$ -Di[3, 5-Dichlor-4-Oxyphenyl] äthin. Sm. 234° (A. 325, $C_{18}H_{10}O_4Cl_4$ 78 C. 1903 [1] 463). $C_{18}H_{10}O_4Cl_8$ *1) Diacetat d. $\alpha\beta$ -Dichlor - $\alpha\beta$ -Di [3,5-Dichlor - 4-Oxyphenyl] äthen. Sm. 182° (A. 325, 81 C. 1903 [1] 464).
2) 1,3-Dichlor-1,3-Di[2,1-Dichlor-1]-R-Tetramethylen-2,4-Dicarbonsäure (Hexachlor 10. 316° (B. 37, 220 C. 1904) 3) isom. 1,3-Dichlor-1,3-Di[2,4-Dichlorphenyl]-R-Tetramethylen-2,4-Dicarbonsäure (Hexachlor-γ-Truxillsäure). Sm. 285° (B. 37, 224 C. 1904 [1] 588). $C_{18}H_{10}O_4Cl_8$ *1) Diacetat d. $\alpha \alpha \beta \beta$ -Tetrachlor- $\alpha \beta$ -Di[3, 5-Dichlor-4-Oxyphenyl]äthan. Sm. 176—177° (A. 325, 87 C. 1903 [1] 464). C₁₈H₁₀O₈N₂ *3) Dioxycarbindigo. Sm. noch nicht bei 300° (B. 37, 1977 C. 1904 [2] 236). 4) isom. Indigocarbonsäure (D.R.P. 73687). — *II, 948. 1) Diacetat d. $\alpha\beta$ - Diketo - $\alpha\beta$ - Di [3,5 - Dichlor - 4 - Oxyphenyl | äthan. C₁₈H₁₀O₆Cl₄ Sm. 165° (A. 325, 89 C. 1903 [1] 464). $C_{18}H_{10}O_6Br_4$ 1) Diacetat d. $\alpha\beta$ - Diketo - $\alpha\beta$ - Di[3,5 - Dibrom - 4 - Oxyphenyl] äthan. Sm. 191° (A. 325, 90 C. 1903 [1] 465). 2) 11-0xy-5,12-Naphtacenchinon-P-Sulfonsäure (B. 36, 720 C. 1903 $C_{18}H_{10}O_{6}S$ [1] 773). $C_{18}H_{10}O_{7}S$ 1) 6,11-Dioxy - 5,12 - Diketo - 5,12-Dihydronaphtacen - P-Sulfonsäure (D.R.P. 138325 C. 1903 [1] 371; B. 36, 724 C. 1903 [1] 774). $\mathbf{C}_{18}\mathbf{H}_{10}\mathbf{N}_{4}\mathbf{Cl}_{2}$ 1) 2,10-Dichlorhomofluorindin (B. 36, 4031 C. 1904 [1] 294). *3) Chinophtalon. Sm. 238—240°. Na, K (B. 37, 3006 C. 1904 [2] 1408). *10) Isochinophtalon (B. 37, 3009 C. 1904 [2] 1408; B. 37, 3011 C. 1904 $C_{18}H_{11}O_2N$ [2] 1409). C₁₈H₁₁O₈N

5) 6-Amido-11-Oxy-5,12-Diketo-5,12-Dihydronaphtacen (B. 36, 2327 C. 1903 [2] 442).

C 70.8 - H 3.6 - O 21.0 - N 4.6 - M. G. 305. $C_{18}H_{11}O_4N$ 1) 6-Amido-11, P-Dioxy-5, 12-Diketo-5, 12-Dihydronaphtacen (B. 36,

2329 C. 1903 [2] 442). 3) 6,6'-Diazoamidocumarin. Sm. 230-234° (Noc. 85, 1234 C. 1904

 $C_{18}H_{11}O_4N_3$ [2] 1124). C₁₈H₁₁O₄Cl₅ 1) 1 - Chlor -1, 3 - Di [2, 4 - Dichlorphenyl] - R - Tetramethylen - 2, 4 - Di-

carbonsäure (Pentachlor-α-Truxillsäure). Sm. 274°. Ag₂ (B. 37, 222 C. 1904 [1] 588). 2) P-Nitro-2, 5-Dibenzoylfuran. Sm. 130-131° (Am. 25, 459). - *III, $C_{18}H_{11}O_{5}N$

 $C_{18}H_{11}O_9N_5$ *1) 2,4 - Dinitrophenyläther d. 2', 4' - Dinitro - 4 - Oxydiphenylamin. Sm. 225° (233°) (B. 37, 1518 C. 1904 [1] 1597; B. 37, 1732 C. 1904 [1] 1521).

 $C_{18}H_{11}N_4C1$ 2) 2-Chlorhomofluorindin. HCl (B. 36, 4030 C. 1904 [1] 294). $C_{18}H_{12}ON_1$ *12) 1-Benzoyl- β -Naphtimidazol. Sm. 126° (B. 37, 3116 C. 1904 [2] 1316).

*14) β -Chinophtalin (B. 37, 3021 C. 1904 [2] 1410). 16) 1-Keto-2-Phenylimido-1,2-Dihydro- β -Naphtindol (β -Naphtisatinα-Anilid) (D.R.P. 153418 C. 1904 [2] 679).

1) 3,5-Dimerkapto -4-Thiocarbonyl-1-Keto-2,6-Diphenyl-1,4-Di-C18H1,0S8 hydrobenzol. Sm. 165° . + CHCl₈, + (C₂H₆)₂O, + C₆H₆, (NH₄)₂, Na₂ + 2C₂H₆O, K₂ + 12H₂O, Ba + 10H₂O (B. 37, 1602 C. 1904 [1]

 $C_{18}H_{12}O_{2}S_{2}$ 1) Diphenyläther d. 2, 5 - Dimerkapto - 1, 4 - Benzochinon. Sm. 2570 (A. 336, 126 C. 1904 [2] 1298). 2) Diphenyläther d. 2,6-Dimerkapto-1,4-Benzochinon. Sm. 203-2040 (A. 336, 130 C. 1904 [2] 1298).

- $C_{18}H_{12}O_4N_2$ 11) P-Diamido-6,11-Dioxy-5,12-Diketo-5,12-Dihydroacenaphten (B 36, 2330 C. 1903 [2] 442).
 - 12) Verbindung (aus Chinolylacetophenon-2-Carbonsäure). Sm. 205° u. Zers. $(B. \ 37, \ 3013 \ C. \ 1904 \ [2] \ 1409).$
- $C_{18}H_{12}O_4Cl_4$ 1) Diacetat d. $\alpha\beta$ -Di[3,5-Dichlor-4-Oxyphenyl] äthen. Sm. 246° (A. 325, 50 C. **1903** [1] 462).
- C18H12O4Cl 1) Diacetat d. $\alpha\beta$ -Dichlor- $\alpha\beta$ -Di[3,5-Dichlor-4-Oxyphenyl]äthan. Sm. 206°? (A. 325, 65 C. 1903 [1] 463).
- $C_{18}H_{12}O_4Br_4$ 1) Diacetat d. $\alpha\beta$ -Di[3,5-Dibrom-4-Öxyphenyl]äthen. Sm. 241 ° (A. 325, 31 *C.* **1903** [1] 460).
- $C_{18}H_{12}O_4Br_6$ 1) Diacetat d. $\alpha\beta$ -Dibrom- $\alpha\beta$ -Di[3,5-Dibrom-4-Oxyphenyl]äthan. Sm. 216° u. Zers. (A. 325, 43 C. 1903 [1] 461).
- 3) 3,5-Dinitro-2-Oxy-1,4-Diphenylbenzol. Sm. 193-194°. K (B. 36, $C_{18}H_{12}O_5N_2$
- methan-α-Methyläther. Sm. 197° (A. 330, 78 C. 1904 [1] 1148).
- $C_{18}H_{12}O_6N_6$ 3) 4-[2,4,6-Trinitrophenylamido]azobenzol. Sm. 176-1770 (J. pr. [2] 69, 43 C. 1904 [1] 508).
- $C_{18}H_{12}N_3Cl_3$ 1) 2,4,6-Trichlor-I-Diphenylamidodiazobenzol. Sm. 38-39° (C. r. 139, 570 C. 1904 [2] 1497).
- C₁₈H₁₂N₃Br₃ 1) 2,4,6-Tribrom-1-Diphenylamidodiazobenzol. Sm. 48° (C. r. 139, 570 C. 1904 [2] 1497).
- $C_{18}H_{12}N_8S_9$ 1) Disulfid d. 3-Merkapto-5-Phenyl-1, 2, 4-Triazin. Sm. 1830 (B. 36,
- 4129 C. 1904 [1] 295).

 1) Di[3-Jodphenyl]-1,3-Phenylendijodoniumehlorid. 2 + PtCl₄ (B. 37, $\mathbf{C}_{18}\mathbf{H}_{12}\mathbf{Cl}_{2}\mathbf{J}_{4}$ 1310 C. 1904 [1] 1340).
- $\mathbf{C}_{18}\mathbf{H}_{12}\mathbf{Br}_{2}\mathbf{J}_{4}$ 1) Di[3-Jodphenyl]-1,3-Phenylendijodoniumbromid. Sm. 146° (B. 37. 1310 C. **1904** [1] 1340).
- $C_{18}H_{18}ON_8$ 13) Phenylhydrazon d. 2-Naphtisatin. Sm. 220° (B. 36, 1737 C. 1903 [2] 119).
- $C_{18}H_{18}OBr$ 2) 5-Brom-2-Oxy-1,4-Diphenylbenzol. Sm. 86° (B. 36, 1409 C. 1903 [1] 1358).
- C₁₈H₁₈O₂N *5) 2,6-Diphenylpyridin-4-Carbonsäure. Sm. 278—279°. Ag (Bl. [3]
 - 29, 407 C. 1903 [1] 1362).

 15) Methylenäther d. 2-[3,4-Dioxybenzyliden]amidonaphtalin. 115°. $+ C_2H_6O$ (B. 37, 1703 C. 1904 [1] 1497).
- C₁₈H₁₈O₂Br₈ 1) Dimethyläther d. ?-Brom-3,4-Dioxy-?-Aethenylphenanthren. Sm. 158-159° (B. 35, 4392 C. 1903 [1] 339).
- $C_{18}H_{18}O_{8}N$ *6) 22-Amid d. 2-Phenylnaphtalin-1, 22-Dicarbonsaure. Sm. 2200 (A. 335, 122 C. 1904 [2] 1133).
 - *7) 1-Amid d. 2-Phenylnaphtalin-1, 22-Dicarbonsäure. Sm. 2750 (A. 335, 122 C. 1904 [2] 1133).
 - 10) Chinolylacetophonon-2-Carbonsäure. Sm. 155° u. Zers. (B. 37, 3012 C. 1904 [2] 1409; B. 37, 3022 C. 1904 [2] 1410).
- 9) Methylester d. α-Cyan-β-Benzoxyl-β-Phenylakrylsäure. Sm. 83° C₁₈H₁₈O₄N (C. r. 136, 691 C. 1903 [1] 920; Bl. [3] 31, 335 C. 1904 [1] 1135). C 59,5 — H 3,6 — O 17,5 $\stackrel{\circ}{=}$ N 19,3 — M. G. 363.
- $C_{18}H_{18}O_4N_5$ 1) 4-[2,4-Dinitrophenylamido] azobenzol. Sm. 175,5-176° (J. pr. [2] 69, 43 C. 1904 [1] 508).
- 2) Diacetat d. 2-Brom-9,10-Dioxyphenanthren. Sm. 178-179° (B. 37, C₁₈H₁₈O₄Br 3561 C. 1904 [2] 1401).
- 5) Lakton d. α-Oxy-γ-Keto-α-Phenyl-β-[2-Nitrophenyl]butan-β-Keto-carbonsäure. Sm. 118° (A. 333, 237 C. 1904 [2] 1390).
 6) Diacetat d. 2-Nitro-9,10-Dioxyphenanthren. Sm. 258° (B. 36, 3732) $C_{18}H_{18}O_{6}N$
 - C. **1904** [1] 35). 7) Diacetat d. 4-Nitro-9,10-Dioxyphenanthren. Sm. 222—223 ° u. Zers.
- (B. 36, 3736 C. 1904 [1] 36). $C_{18}H_{18}N_3Cl_2$ 1) 2,4-Dichlor-1-Diphenylamidodiazobenzol. Sm. 35-40° (C. r. 139,
- 570 C. 1904 [2] 1497). $C_{18}H_{18}N_8Br_2$ 1) 2,4-Dibrom-I-Diphenylamidodiazobenzol. Sm. 80° (C. r. 139, 570)
- C. 1904 [2] 1497). $C_{18}H_{18}N_8J_2$ 1) 2,4-Dijod-1-Diphenylamidodiazobenzol. Sm. 70° (C. r. 139, 571) C. 1904 [2] 1497).

C18H14N,J,

C18H14N8C1

2] 1497).

[2] 1497).

[2] 1497).

C₁₈H₁₄ON₄ *2) 4-Oxy-1,3-Di[Phenylazo]benzol. Sm. 123° (C. r. 138, 1278 C. 1904 [2] 97). C₁₈H₁₄O₂N₂ 27) 2-Oxy-1-[2-Acetylphenyl] azonaphtalin. Sm. 198.5—199° (B. 36. 1621 C. 1903 [2] 36). 28) 2.2'-Dimethylindigo (D. R. P. 58276, 63310). — *II. 960. C₁₈H₁₄O₂N₄ 19) 2-Nitro-1-Diphenylamidodiazobenzol. Fl. (C. r. 139, 569 C. 1904 [2] 1497). 20) 3-Nitro-l-Diphenylamidodiazobenzol. Fl. (C. r. 139, 569 C. 1904 [2] 1497). 21) 4-Nitro-1-Diphenylamidodiazobenzol. Sm. 63° (C. r. 139, 569) C. 1904 [2] 1497). 22) $\alpha\beta$ -Di[4-Keto-3,4-Dihydro-1,3-Benzdiazin-2-] äthan + H₂O. Sm. C₁₈H₁₄O₂J₄
1) Di[3-Jodphenyl]-1,3-Phenylendijodoniumhydroxyd. Salze siehe (B. 37, 1310 C. 1904 [1] 1340).

1) 2,5-Diphenyläther d. 2,5-Dimerkapto-1,4-Dioxybenzol. Sm. 103° C, H, O, S, (A. 336, 134 C. 1904 [2] 1298).
2) 2,6-Diphenyläther d. 2,6-Dimerkapto-1,4-Dioxybenzol (A. 336, 136 C. 1904 [2] 1299). 3) Disulfid d. β -Phenylakrylthiolsäure (Zimmtsäuredisulfid). Sm. 139° (B. 36, 2272 C. 1903 [2] 563). C₁₈H₁₄O₈N₂ 17) Oxim d. Chinolylacetophenon-2-Carbonsäure. Sm. 145° u. Zers. (B. 37, 3012 C. 1904 [2] 1409). C₁₈H_{.4}O₄N₂ *1) Dibenzamidodioxytetrol. Sm. 137,5° (J. pr. [2] 70, 239 C. 1904 [2] 1462). 14) αγ-Dioximido-β-Phtalyl-α-Phenylbutan. Sm. 63° (B. 37, 582
 C. 1904 [1] 940). 15) $\alpha\beta$ -Di[2-Methylenamidophenyl]äthen- $\alpha\beta$ -Dicarbonsäure (A. 332, 276 *C.* 1904 [2] 701). 16) 1-Phenylazo-3,4-Dioxynaphtalin-2-Methylcarbonsäure. Sm. 2120 u. Zers. (E. Hover, Dissert., Berlin 1901). $C_{18}H_{14}O_4N_4$ *3) 4-Amido-4-[2, 4-Dinitrophenyl]amidobiphenyl. Sm (J. pr. [2] 68, 262 C. 1903 [2] 1064). $C_{18}H_{14}O_4Cl_4$ 2) Diacetat d. $\alpha\beta$ -Di[3, 5-Dichlor-4-Oxyphenyl]äthan. (A. 325, 50 C. 1903 [1] 462). Sm. 244-2450 $C_{18}H_{14}O_4Br_2*2$) 1, 3 - Di[4 - Bromphenyl] - \hat{R} - Tetramethylen - 2, 4 - Dicarbonsäure (Dibrom-α-Truxillsäure). Sm. 296°. Ag₂ (B. 37, 219, 224 Anm. C. 1904 [1] 588). 3) isom. 1,3-Di[4-Bromphenyl]-R-Tetramethylen-2,4-Dicarbonsäure (Dibrom-γ-Truxillsäure). Sm. 280° (B. 37, 223 C. 1904 [1] 588). 2) $\alpha\beta$ -Diacetat d. isom. $\alpha\beta$ -Dioxy- $\alpha\beta$ -Di[3,5-Dichlor-4-Oxyphenyl]äthan. Sm. 202° (A. 325, 62 C. 1903 [1] 462). $C_{18}H_{14}O_8Br_4$ 1) $\alpha\beta$ -Diacetat d. $\alpha\beta$ -Dioxy- $\alpha\beta$ -Di[3,5-Dibrom-4-Oxyphenyl]äthan. Sm. 218° (4. 325, 38 \tilde{O} . 1903 [1] 461). 2) $\alpha\beta$ -Diacetat d. isom. $\alpha\beta$ -Dioxy- $\alpha\beta$ -Di[3,5-Dibrom-4-Oxyphenyl]- athan? Sm. 217° (A. 325, 40 C. 1903 [1] 461). C18H14O14N4 C 42,4 — H 2,7 — O 43,9 — N 11,0 — M. G. 510. 1) Di[P-Dinitro-2-Methoxylphenylester] d. Bernsteinsäure (B. 35, 4083 C. 1903 [1] 74). *1) Jodmethylat d. α-Chrysidin. Sm. 262-263° (B. 37, 2925 C. 1904 C₁₈H₁₄NJ [2] 1412). *2) Jodmethylat d. β-Chrysidin. Sm. 264 (B. 37, 2927 C. 1904 [2] 1412).

1) 4-Phenylazodiphenyljodoniumjodid. Sm. 135° (B. 37, 1314 C. 1904 2) 2-Chlor-1-Diphenylamidodiazobenzol. Fl. (C. r. 139, 569 C. 1904)

3) 3-Chlor-1-Diphenylamidodiazobenzol. Fl. (C. r. 139, 569 C. 1904

4) 4-Chlor-1-Diphenylamidodiazobenzol. Sm. 20° (C. r. 139, 569 C. 1904

- 2) 2-Brom-1-Diphenylamidodiazobenzol. Fl. (C. r. 139, 570 C. 1904 $C_{18}H_{14}N_8Br$ [2] 1497). 3) 3-Brom-1-Diphenylamidodiazobenzol. Fl. (C. r. 139, 570 C. 1904 [2] 1497), 4) 4-Brom-1-Diphenylamidodiazobenzol. Fl. (C. r. 139, 570 C. 1904 [2] 1497) C₁₈H₁₄N₈J 1) 4-Jod-1-Diphenylamidodiazobenzol. Fl. (C. r. 139, 571 C. 1904 [2] C₁₈H₁₅ON 19) 1-Phenyl-1, 3-Dihydro-4, 2-β-Naphtisoxazin. Sm. 214° (G. 33 [1] 29 C. 1903 [1] 926). 20) 10-Methyl-1, 2-Naphtakridol. Sm. 206-207° (B. 37, 2928 C. 1904 [2] 1412). 2) Triphenylphosphinoxyd. Sm. 156° (C. r. 139, 675 C. 1904 [2] 1638). 32) Imid d. Buttersäure. Sm. 107° (C. r. 137, 128 C. 1903 [2] 552). C₁₈H₁₅OP $C_{18}H_{15}O_2N$ 2) 1-[Methyl- α -Cyanäthylamido]-1-[α -Cyan-4-Nitrobenzyliden]amidobenzol. Sm. 142° (B. 36, 759 C. 1903 [1] 962). C18H15O2N5 Methylester d. P-Brom-αδ-Diphenyl-αγ-Butadiën-α-Carbonsäure.
 Sm. 81—82° (J. pr. [2] 68, 533 C. 1904 [1] 452). $C_{18}H_{15}O_{2}Br$ 16) Methylenäther d. Methyl-4-[3, 4-Dioxycinnamyliden]amidophenyl-C₁₈H₁₅O₈N keton. Sm. 158° (B. 37, 1701 C. 1904 [1] 1497). 17) 4-Acetylamido-l-Benzoyl-2-Methylbenzfuran. Sm. 178—179° (B. 36, 1260 C. 1903 [1] 1183). 18) 3-Methyl-5-Phenyl-4-Benzylisoxazol-42-Carbonsäure. Sm. 189 bis 190° (B. 37, 588 C. 1904 [1] 940).

 19) Verbindung + ½ H₂O (aus Thallin u. Phtalsäureanhydrid). Sm. 239° (B. 37, 1963 C. 1904 [2] 44). $\mathbf{C_{18}}\mathbf{H_{15}}\mathbf{O_{8}}\mathbf{N_{8}}$ 7) 4-[3-Nitro-4-Acetylamidobenzyl]isochinolin $+ 3H_2O$. Sm. 144 bis 145° (wasserfrei) (A. 326, 281 C. 1903 [1] 928). 8) Aethylester d. 4-Phenylazo-5-Phenylisoxazol-3-Carbonsäure. Sm. 99—100° (B. 37, 2205 C. 1904 [2] 323). C 61.9 — H 4.3 — O 13.8 — N 20.0 — M. G. 349. $C_{18}H_{15}O_8N_5$ 1) 1-Phenylamidoformyl-4-Phenylamidoformylamido-2-Keto-1, 2-Dihydro-1, 3-Diazin. Sm. 260° (Am. 29, 501 C. 1903 [1] 1311). $C_{18}H_{15}O_{3}Br$ 3) Methyläther d. Bromthebenol. Sm. 148-149° (B. 37, 2791 C. 1904 [2] 716). C₁₈H₁₅O₃B *1) Triphenylester d. Borsäure. Sm. 50° (B. 36, 2222 C. 1903 [2] 420). C₁₈H₁₅O₄N *5) Benzylimid d. i-Benzoyläpfelsäure. Sm. $100-101^{\circ}$ (J. pr. [2] 70, 9 C. 1904 [2] 774). *6) Benzylimid d. d-Benzoyläpfelsäure. Sm. 126—127° (J. pr. [2] 70, 11 C. 1904 [2] 774). 10) Methylester d. α -[4-Nitrophenyl]- δ -Phenyl- $\alpha\gamma$ -Butadiën- α -Carbonsäure. Sm. 130—131° (A. 336, 216 C. 1904 [2] 1732). 11) Benzylimid d. l-Benzoyläpfelsäure. Sm. 126—127° (J. pr. [2] 70, 12 C. 1904 [2] 774). Diacetat d. α - Chlor - αβ - Di [4 - Oxyphenyl] äthen. Sm. 125—126°
 (A. 335, 183 C. 1904 [2] 1130). C₁₈H₁₅O₄Cl C18H15O4Br 4) Diacetat d. α - Brom - $\alpha\beta$ - Di [4 - Oxyphenyl] athen. Sm. 126—127° (A. 335, 182 C. 1904 [2] 1130). $\mathbf{C_{18}H_{15}O_{5}N}$ 2) Aethylester d. 3-Nitrobenzylidenbenzoylessigsäure. Sm. 107—108° (Soc. 83, 722 C. 1903 [2] 54). C 54,4 — H 3,8 — O 24,2 — N 17,6 — M. G. 397. C18H15O6N5 1) 4, 6-Dinitro-5-Methylnitramido-2-Methylphenyl-2-Naphtylamin. Sm. 131° (J. pr. [2] 67, 526 C. 1903 [2] 239).
- $C_{18}H_{15}O_7N$ 2) α -Phenyl- β -[2-Nitro-3-Acetoxyl-4-Methoxylphenyl]akrylsäure. Sm. 201° (B. 35, 4412 C. 1903 [1] 343).

3) β -[2-Carboxybenzoyl] amido- α -Phenyläthan- $\beta\beta$ -Dicarbonsäure. Sm. $160-165^{\circ}$ u. Zers. (C. 1903 [2] 33). C 53,9 — H 3,7 — O 31,9 — N 10,5 — M. G. 401.

C₁₈H₁₅O₈N₃ C 53,9 — H 3,7 — O 31,9 — N 10,5 — M. G. 401. 1) Diphenyläther d. Nitrodioxydichinolnitrosäure. Na₂ (Am. 29, 118 C. 1903 [1] 709).

C₁₈H₁₈ON₂ 23) 4 - Phenylamido - 4' - Oxydiphenylamin (D. R. P. 150 553 C. 1904 [1] 1467).
 24) 4 - [4 - Acetylamidobenzyl] isochinolin. Sm. 181—182° (A. 326, 279 C. 1903 [1] 928).

- 1) 5-Thiocarbonyl-2-Keto-1, 3-Diphenylhexahydrobenzol. Sm. 136,50 C18H16OS (B. 37, 1609 C. 1904 [1] 1445). $C_{18}H_{16}OSi$ *1) Siliciumtriphenyloxydhydrat. Sm. 155% (B. 37, 1140 C. 1904 [1] 1257). $\rm C_{18}H_{16}O_2N_2$ 28) $\alpha\beta$ -Di[4-Acetylamidophenyl] athin. Sm. 270° (A. 325, 73 C. 1903 29) 6-Methyl-1,3-Diphenyl-1,4-Dihydro-1,2-Diazin-5-Carbonsäure. Sm. 185—186° (A. 331, 310 C. 1904 [2] 45). 30) Phenylimid d. α -Phenylamido- α -Buten- $\alpha\beta$ -Dicarbonsäure. Sm. 113 bis 114° (B. 37, 2383 C. 1904 [2] 306).

 8) Aethylester d. 4-Phenylazo-5-Phenylpyrazol-3-Carbonsäure. Sm. 153° (B. 37, 2208 C. 1904 [2] 323).

 C 62,1 — H 4,6 — O 9,2 — N 24,1 — M. G. 348. C18H16O2N4 $C_{18}H_{16}O_2N_6$ 1) 3,6-Di[3-Acetylamidophenyl]-1,2,4,5-Tetrazin. Sm. 295° (B. 35, 3937 C. 1903 [1] 38). C₁₈H₁₆O₂Br₂ *2) Methylester d. $\gamma\delta$ -Dibrom- $\alpha\delta$ -Diphenyl- α -Buten- α -Carbonsäure. Sm. 118° (J. pr. [2] 68, 527 C. 1904 [1] 452).

 3) Methylester d. isom. P-Dibrom- $\alpha\beta$ -Diphenyl- α -oder- β -Buten- α -Carbonsäure. Sm. 133—134° (J. pr. [2] 68, 526 C. 1904 [1] 451).

 1) δ-Merkapto-α-Phenyl-αγ-Butadiën-δ-Carbonsäure. Sm. 164° (M. 23, $C_{18}H_{18}O_{2}S$ 970 C. 1903 [1] 284). $C_{18}E_{18}O_{2}S_{2}$ *1) Diphenyläther d. 2,5 - Dimerkapto - 1,4 - Diketohexahydrobenzol (Thiophenochinon) (A. 336, 117 C. 1904 [2] 1298). $C_{18}H_{18}O_{8}N_{2}$ 14) 4-Acetylamido-1- $[\alpha$ -Oximidobenzyl]-2-Methylbenzfuran. Sm. 1920 (B. 36, 1261 C. 1903 [1] 1183). 15) 2,4,6-Triketo-5,5-Dibenzylhexahydro-1,3-Diazin. Sm. 222° (D.R.P. 146496 C. 1903 [2] 1484; A. 335, 347 C. 1904 [2] 1381).

 1) δ-Acetat d. γγ-Dichlor-αδ-Dioxy-αδ-Diphenyl-α-Buten. Sm. 106° (B. 36, 2396 C. 1903 [2] 498). $\mathbf{C}_{18}\mathbf{H}_{16}\mathbf{O}_{3}\mathbf{Cl}_{2}$ $C_{18}H_{16}O_8Br_2$ 3) Aethylester d. $\alpha\beta$ -Dibrom- γ -Keto- $\alpha\gamma$ -Diphenylpropan- β -Carbonsäure. Sm. 110° (G. 33 [2] 147 C. 1903 [2] 1270).
 - 4) δ-Acetat d. γγ-Dibrom-αδ-Dioxy-αδ-Diphenyl-α-Buten. Sm. 124° (B. 36, 2398 C. 1903 [2] 498). 5) δ -Acetat d. isom. $\eta \gamma$ -Dibrom- $\alpha \delta$ -Dioxy- $\alpha \delta$ -Diphenyl- α -Buten. Sm. 1030 (B. 36, 2399 C. 1903 [2] 498).
- C₁₈H₁₆O₄N₂ *7) Aethylester d. Phenylazobenzoylbrenztraubensäure. Sm. 115 bis 116° (B. 37, 2204 C. 1904 [2] 323).

 14) Diacetat d. Di[2-Oxybenzyliden]hydrazin. Sm. 190—191° (B. 37,
 - 3185 C. 1904 [2] 991).
- $C_{18}H_{16}O_4Cl_2$ 2) Diacetat d. $\alpha\beta$ -Diehlor- $\alpha\beta$ -Di[4-Oxyphenyl]äthan. Sm. 220° u. Zers. (A. 335, 179 C. 1904 [2] 1130). 3) Diacetat d. isom. $\alpha\beta$ -Diehlor- $\alpha\beta$ -Di[4-Oxyphenyl]äthan. Sm. 132"
- (A. 335, 181 C. 1904 [2] 1130).

 C₁₈H₁₆O₄Br₂
 4) Diacetat d. $\alpha\beta$ -Dibrom- $\alpha\beta$ -Di[4-Oxyphenyl] \(\beta\$than. Sm. 215 \(^{\text{0}}\) u. Zers.

 (A. 335, 176, 178 C. 1904 [2] 1129).
 - 5) Diacetat d. isom. $\alpha\beta$ -Dibrom- $\alpha\beta$ -Di[4-Oxyphenyl]äthan. Sm. 169 bis 170° (4. 335, 176, 179 C. 1904 [2] 1130).
- 3) 1-Dimethylamidonaphtalin + 1,3,5-Trinitrobenzol. Sm. 105-106° $C_{18}H_{16}O_6N_4$ (Soc. 83, 1338 C. 1904 [1] 99)
 - 4) 1-Aethylamidonaphtalin + 1,3,5-Trinitrobenzol. Sm. 153,5-154 o (Soc. 83, 1337 C. 1904 [1] 99).
 - 5) 2-Aethylamidonaphtalin + 1,3,5-Trinitrobenzol. Sm. 1060 (Soc. 83, 1339 C. 1904 [1] 99).
- $C_{18}H_{18}O_6Br_4$ 1) 9 Methyläther d. Tetrabrom 1, 3, 6, 8 Tetraketo 2, 4, 5, 7-Tetramethyloktohydroxanthen. Sm. 155-160° u. Zers. (M. 25, 680) C. 1904 C18H16O8N2
- 5) Biphenyl-3, 3'-Dicarbonsäure-4, 4'-Di[Amidoessigsäure]. Sm. oberb. 300° (C. 1903 [1] 34). C₁₈H₁₆ClJ
- 1) 4-Aethylphenyl-1-Naphtyljodoniumchlorid. Sm. 168°. 2 + HgCl₂, $2 + PtCl_{4}$ (A. 327, 299 C. 1903 [2] 352).
- $\mathbf{C}_{18}\mathbf{H}_{16}\mathbf{BrJ}$ 1) 4-Aethylphenyl-I-Naphtyljodoniumbromid. Sm. 156° (A. 327, 299 C. 1903 [2] 352).
- $C_{18}H_{17}ON$ 17) ε -Oximido α -Phenyl- ε -[4-Methylphenyl]- $\alpha\gamma$ -Pentadiën. Sm. 170° (B. 36, 847 C. 1903 [1] 975).

C18H17ON 18) ε - Oximido - ε - Phenyl - α - [4-Methylphenyl] - $\alpha \gamma$ - Pentadiën. Sm. 128 bis 129° (B. 36, 851°C. 1903 [1] 975).

19) 4-Methylamido-[2-Oxy-1-Naphtyl]methan. Sm. 142°. HCl (M. 23, 998 C. 1903 [1] 290).

20) 4-Methylamidophenyl-[4-Oxy-l-Naphtyl]methan. Sm. 141—142°. HCl, H₂SO₄ (M. 23, 996 C. 1903 [1] 290).

21) 10-Acetylamido - 9 - Aethylanthracen. Sm. 259-260° (A. 330, 174

C. 1904 [1] 891).
7-Oxy-2-Propyl-4-Phenylchinolin. Sm. 221° (B. 36, 4019 C. 1904) [1] 293).

23) Aethyläther d. 7-Oxy-2-Methyl-4-Phenylchinolin. Sm. 91° (B. 36, 2455 C. 1903 [2] 670).

12) 4-[4-Amidophenyl]amido-1-[4-Oxyphenyl]amidobenzol. Sm. 185° (D.R.P. 153994 C. 1904 [2] 966).
13) 3-Benzoylimido-1,5-Dimethyl-2-Phenyl-2,3-Dihydropyrazol (Ben-C18H17ON8

zoyliminopyrin). Sm. 176° (B. 36, 3285 C. 1903 [2] 1190).

14) Monoacetylderivat d. 2-[β-3-Amidophenyläthenyl]-5-oder-6-Methylbenzimidazol (C. 1904 [1] 103).

15) Verbindung (aus Benzaldehyd u. α-Cyanpropionsäureäthylester). Sm. 198° u. Zers. (C. 1903 [2] 713).

16) isom. Verbindung (aus Benzaldchyd u. α-Cyanpropionsäureäthylester). Sm. 210° u. Zers. (C. 1903 2, 713).

1) 4-Aethylphenyl-Ì-Naphtyljodoniumhydrat. Salze siehe (A. 327, 299 $C_{18}H_{17}OJ$ C. 1903 [2] 352). 11) 4-Methylamidophenyl-[2, 3-Dioxy-l-Naphtyl]methan. Sm. 185 bis C₁₈H₁₇O₂N

186°. H_2SO_4 (\bar{M} . 23, 1001 C. 1903 [1] 290). 12) 4-Methylamidophenyl-[2,7-Dioxy-1-Naphtyl]methan. Sm. 179-180°

(M. 23, 1000 C. 1903 [1] 290). 13) Aethylester d. α -Cyan- $\alpha\beta$ -Diphenylpropionsäure. Sd. 231—233 $^{\circ}_{32}$ (Am. 32, 130 C. 1904 [2] 954).

14) Acetat d. γ -Oximido- $\alpha\beta$ -Diphenyl- α -Buten. Sm. 92° (M. 19, 410; 20, 739; 22, 667). — *III, 185.

15) Acetat d. syn- α -Oximido- $\alpha\gamma$ -Diphenyl- β -Buten. Sm. 74° (M. 25,

436 C. 1904 [2] 336). 16) Nitril d. 1-Oxymethylbenzoleugenoläther-4-Carbonsäure. Sm. 63 bis 64° (D.R.P. 82924). — *II, 927.

17) Nitril d. 1-Oxymethylbenzolisoeugenoläther-4-Carbonsäure. Sm. 97-98° (D.R.P. 82924). - *II, 927.

C₁₈H₁₇O₂N₃ 11) Phenylhydrazon d. 1-Keto-4-Oxy-3-Propionyl-1,2-Dihydroiso-

chinolin. Sm. 212—213° (B. 37, 2486 C. 1904 [2] 420).
12) Acetat d. 5-Oxy-1-Phenyl-3-[β-Phenyläthyl]-1,2,4-Triazol. Sm. 109° (B. 36, 1102 C. 1903 [1] 1140).

13) Verbindung (aus Benzylidenbenzoylaceton u. Semicarbazid). Zers. bei 230°

(Soc. 85, 467 C. 1904 [1] 1080, 1438).
6) Dimethyläther d. 6,7-Dioxy-1-Keto-2-Benzyl-1,2-Dihydroiso-chinolin. Sm. 167°. Pikrat (B. 37, 530 C. 1904 [1] 818; B. 37, 3814 C18H17O8N C. 1904 [2] 1575).

7) α -Cinnamoylamido - β -Phenylpropionsäure. Sm. 198—199° (B. 37, 3069 C. 1904 [2] 1208). 8) Aethylester d. α-Cyan-β-[2-Aethoxyl-1-Naphtyl|akrylsäure. Sm.71°

(Bl. [3] **29**, 880 C. **1903** [2] 885). 2) Amid d. 1-[Methyl-α-Carboxyathylamido]-4-[α-Cyan-4-Nitro-

C18H17O8N5 Amid d. 1-[Methyl-α-Carboxyāthylamido]-4-[α-Cyan-4-Nitrobenzyliden]amidobenzol. Sm. 205—210° (B. 36, 762 C. 1903 [1] 963).
 Azid d. α-Benzoylamidoacetylamido-β-Phenylpropionsäure. Zers. bei 70° (J. pr. [2] 70, 229 C. 1904 [2] 1462).
 Aethylester d. β-Keto-η-[4-Chlorphenyl]-α-Phenylpropan-η-Carbonsäure. Sm. 166—168° (J. pr. [2] 67, 392 C. 1903 [1] 1357).
 Dimethyläther d. Papaverolin. (2 HCl, PtCl₄), Pikrat (C. 1903 [1] 844).
 Trimethyläther d. 7,8-Dioxy-2-Keto-3-[4-Oxyphenyl]-1,2-Dihydrochinolin. Sm. 282° (B. 35, 4405 C. 1903 [1] 342).
 2-Aethylester d. Benzoyl-2-Carboxyphenylamidoessigsäure. Sm. 141—143° (D. R. P. 138 207 C. 1903 [1] 305).

 $\mathbf{C}_{18}\mathbf{H}_{17}\mathbf{O}_{8}\mathbf{C}\mathbf{I}$ C18H17O4N

141—143° (D.R.P. 138207 C. 1903 [1] 305). 10) β -Benzylamid d. d- α -Benzoxyläthan- $\alpha\beta$ -Dicarbonsäure. Sm. 125°

(B. **37**, 2125 C. **1904** [2] 439).

 $C_{18}H_{17}O_5N$

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 $C_{18}H_{17}O_5N$ 11) β -Benzylamid d. i- α -Benzoxyläthan- $\alpha\beta$ -Dicarbonsäure. Sm. 1169

 Acetat d. α-Acetyl-α-Phenyl-β-[5-Nitro-2-Oxy-3-Methylbenzyliden]hydrazin. Sm. 199-200° (B. 37, 3922 C. 1904 [2] 1594).

 Acetat d. α-Acetyl·α-Phenyl-β-[5-Nitro-6-Oxy-3-Methylbenzyliden]hydrazin. Sm. 130—150° (B. 37, 3926 C. 1904 [2] 1595).

C 60.8 - H 4.8 - O 22.5 - N 11.8 - M. G. 355.

(B. 37, 2126 C. 1904 [2] 439).

 $C_{18}H_{17}O_5N_3$

*1) Corydinsäure $+ \frac{1}{2}$ H₂O (Soc. 83, 620 C. 1903 [1] 1364). $C_{18}H_{17}O_6N$ 5) 28,24,6-Trimethyläther d. 3-Oximido-6-Oxy-2-[3,4-Dioxyphenyl]-2,3-Dihydro-1,4-Benzpyron. Sm. 168° u. Zers. (B. 37, 780° C. 1904 [1] 1156. 6) 24,5,7-Trimethyläther d. 3-Oximido-5,7-Dioxy-2-[4-Oxyphenyl]-2,3-Dihydro-1,4-Benzpyron. Sm. 189-190° u. Zers. (B. 37, 2097 C. 1904 [2] 121). 7) 22,7,8-Trimethyläther d. 3-Oximido-7,8-Dioxy-2-[2-Oxyphenyl]-2,3-Dihydro-1,4-Benzpyron. Sm. 170° u. Zers. (B. 37, 2629° C. 1904 [2] 539) 8) 2³,7,8-Trimethyläther d. 3-Oximido-7,8-Dioxy-2-[3-Oxyphenyl]-2,3-Dihydro-1,4-Benzpyron. Sm. 168° u. Zers. (B. 37, 2632 C. 1904) [2] 540). 9) Aldehyd (aus Bebeerin). Sm. 255° (Ar. 236, 538). — *III, 621. C₁₈H₁₇O₇N 13) α -[4-Methoxylphenyl] β -[2-Nitro-3,4-Dimethoxylphenyl] akrylsäure. Sm. 230—231° (B. 35, 4404 C. 1903 [1] 342). 14) Säure (aus Bebeerin). Sm. 270° (Ar. 236, 538). — *III, 621. 2) 2-Jodmethylat d. 3-Methyl-1, 4-Diphenylbipyrazol. Sm. 2210 (B. 36, $C_{18}H_{17}N_4J$ 528 C. 1903 [1] 642). C₁₈H₁₈ON₂ *14) 7-[4-Dimethylamidophenyl]amido-2-Oxynaphtalin. Sm. 126—127° (J. pr. [2] 69, 242 C. 1904 [1] 1269). 16) 2-Amido-5-Oxy-3,7,10-Trimethyl-5,10-Dihydroakridin. Sm. 210° (Soc. 85, 532 C. 1904 [1] 1525). 6) Amid d. 1-[Methyl-α-Carboxyäthylamido]-4-[α-Cyanbenzyliden]-C18H18ON4 amidobenzol. Sm. 154° (B. 36, 761 C. 1903 [1] 963). 7) Aethyläther d. 5-Keto-4-[4-Oxyphenyl]-3-Methyl-1-Phenyl-4,5-Dihydropyrazol. Sm. 159° (D.R.P. 153861 C. 1904 [2] 680). $C_{18}H_{18}O_{2}N_{4}$ C 61,7 - H 5,1 - O 9,1 - N 24,0 - M. G. 350. $\mathbf{C_{18}H_{18}O_{2}N_{6}}$ 1) 4,5 - Di $[\alpha$ -Phenylhydrazonäthyl] - 1,2,3,6 - Dioxdiazin. Sm. 175° (C. 1903 [2] 1433). $C_{18}H_{18}O_8N_2$ 16) α -Keto- $\alpha\beta$ -Di[Acetylamidophenyl]äthan. Sm. 272° (A. 325, 75) C. 1903 [1] 463). 17) 3-Methyläther-4-Aethyläther d. 1-Nitrosamido-2-[3,4-Dioxyphenyl]indol (B. 37, 873 C. 1904 [1] 1154). 18) Acetat d. 4-Oxy-3-Acetylphenylhydrazonmethyl-1-Methylbenzol. Sm. 149° (B. 35, 4106 C. 1903 [1] 149). 2) Benzylidenhydrazid d. Benzoylamidoacetylamidoessigsäure. Sm. C18H18O8N4 215—217° (J. pr. [2] 70, 79 C. 1904 [2] 1033). C₁₈H₁₈O₄N₂ *9) Diäthylester d. Azobenzol-3,3'-Dicarbonsäure. Sm. 109° (corr.) (A. 326, 341 C. 1903 [1] 1130). *10) Diäthylester d. Azobenzol-4, 4'-Dicarbonsäure. Sm. 145,50 (A. 326, 332 C. 1903 [1] 1130). 17) α-Benzoylamidoacetyl-β-Phenylpropionsäure. Sm. 172°. Ag (J. pr. [2] 70, 226 C. 1904 [2] 1461). 18) Aethylester d. $\alpha\beta$ -Dibenzoylhydrazidoessigsäure. Sm. 112—113° (*J. pr.* [2] 70, 277 *C.* 1904 [2] 1544). C₁₈H₁₈O₄N₄ *8) Di[Benzylidenhydrazid] d. d- $\alpha\beta$ -Dioxyäthan- $\alpha\beta$ -Dicarbonsäure. Sm. 230° u. Zers. (Soc. 83, 1364 C. 1904 [1] 84). $C_{18}H_{18}O_4Cl_4$ 2) $\alpha\beta$ -Diäthyläther d. $\alpha\beta$ -Dioxy- $\alpha\beta$ -Di[3, 5-Dichlor-4-Oxyphenyl]äthan. Sm. 183-184° (A. 325, 59 C. 1903 [1] 462). C₁₈H₁₈O₄Br₂ 1) Tetramethyläther d. $\alpha\beta$ -Dibrom- $\alpha\beta$ -Di[3, 4-Dioxyphenyl]äthen. Sm. 208° (A. 329, 47 C. 1903 [2] 1448). C₁₈H₁₈O₄S 2) 2,5-Diacetat d. 4-Merkapto-2,5-Dioxy-l-Methylbenzol-4-Benzyläther. Sm. 120-122° (A. 336, 164 C. 1904 [2] 1300). C₁₈H₁₈O₅N₂ *1) Diäthylester d. Azoxybenzol-3, 3'-Dicarbonsäure. Sm. 78° (A. 326,

342 C. 1903 [1] 1130).

- $C_{18}H_{18}O_5N_2$ *7) Diäthylester d. Azoxybenzol-2, 2'-Dicarbonsäure. (A. 326, 345 C. 1903 [1] 1130). Sm. 76-770
 - 8) Diäthylester d. Azoxybenzol-4,4'-Dicarbonsäure. Sm. 114,5° (122,5°) (A. 326, 334 C. 1903 [1] 1130; Am. 32, 398 C. 1904 [2] 1499).
- Sm. 194° (A. 332, 131 C., H., O.N. 7) Dicyanmalonbenzovlessigesterlaktam. C. 1904 [2] 190).
 - 8) Aethylester d. $\beta\beta'$ -Di[4-Nitrophenyl]isobuttersäure. Sm. 104,5° (106—107°) (G. 32 [2] 357 C. 1903 [1] 629; B. 37, 1996 C. 1904 [2] 27).
- C 57.8 H 4.8 O 29.9 N 7.5 M. G. 374. $C_{18}H_{18}O_7N_8$ 1) 3-[6-Oxv-3-Methylcarboxyphenylamid] d. 4-Oxybenzol-1-Carbonsäure-3-Amidoessigsäure-1-Methylester. Sm. 2190 (A. 325, 333
- C. 1903 [1] 771). C 48,0 H 4,0 O 35,6 N 12,4 M. G. 450. $C_{19}H_{19}O_{10}N_4$ 1) Diäthyläther d. ?-Tetranitro-4,4'-Dioxy-3,3'-Dimethylbiphenyl.
- Sm. 142° (Am. 31, 127 C. 1904 [1] 809). C, H, NJ 1) Jodäthylat d. 4-Benzylisochinolin. Sm. 188—189° (A. 326, 295
- C. 1903 [1] 929). $C_{18}H_{18}N_2Cl_2$ 3) 1,3-Xylylendipyridoniumehlorid. 2 + PtCl₄ (B. 36, 1679 C. 1903
- $C_{18}H_{18}N_2Br_2$ 3) 1,3-Xylylendipyridoniumbromid. Sm. 264°. + Br. (B. 36, 1679)
- C. 1903 [2] 29).
- 2) Verbindung (aus Phenylbenzylidenhydrazin). Sm. 262°. + 3 HgCl, C, H, N, J $+ H_2O_1 + PtCl_4$, 2 + PtCl₄ (G. 33 [2] 55 C. 1903 [2] 1057).
- C₁₈H₁₉O₂N *11) Apocodeïn. Fl. HCl (B. 36, 1592 C. 1903 [2] 53).

 - 23) γ-[3-Oxyphenyl]imido-α-Oxy-α-Phenyl-α-Hexen. Sm. 152° (B. 36, 4019 C. 1904 [1] 293).
 24) βδ-Diketo-γ-[α-Phenylamidobenzyl]pentan. Sm. 113° (Soc. 85, 466 C. 1904 [1] 1080, 1438).
 - 25) 3-Methyläther-4-Aethyläther d. 3-Methyl-2-[3,4-Dioxyphenyl]indol. Sm. 165° (B. 37, 873 C. 1904 [1] 1154). 26) Methylapomorphin. + CH₄O (B. 35, 4388 C. 1903 [1] 339).
- 4) γ -Phenylsemicarbazon- α -[6-Oxy-3-Methylphenyl]- α -Buten + H₂O. Sm. 177° (B. 37, 3186 C. 1904 [2] 991). C18H19O2N3
- $\mathbf{C_{18}H_{19}O_{2}Cl_{8}}$
- $C_{18}H_{19}O_8N$
- (a) $\beta\beta\beta$ -Trichlor- $\alpha\alpha$ -Di[4-Oxy-2,5-Dimethylphenyl]äthan. Sm. 175 bis 176° (B. 36, 1892 C. 1903 [2] 291).

 *4) Thebenin. HCl + 3H₂O (B. 36, 3082 C. 1903 [2] 955).

 *13) Morphothebaïn. Sm. 197° u. Zers. (B. 36, 3083 C. 1903 [2] 955).

 26) Codeïnon. Sm. 185—186°. HCl + H₂O, Pikrat, Pikrolonat (B. 36, 36). 3070 C. 1903 [2] 953).
 - 27) Methylester d. α -Phenylamido- γ -Keto- α -Phenylbutan- β -Carbonsäure. Sm. 125° (B. 36, 942 C. 1903 [1] 1018).
 - 28) Methylester d. isom. α-Phenylamido-γ-Keto-α-Phenylbutan-β-Carbonsäure. Sm. 86° (B. 36, 942 C. 1903 [1] 1018).
 - 29) Amid d. 1-Oxymethylbenzoleugenoläther-4-Carbonsäure. Sm. 178°
 - (D.R.P. 82924). *II, 927. 30) Amid d. 1-Oxymethylbenzolisoeugenoläther-4-Carbonsäure. Sm. 191—192° (D.R.P. 82924). — *II, 927.
- 3) Methyläther d. α -Oximido- α -[4-Methylbenzoyl]- β -[4-Methylphenyl]- $C_{18}H_{19}O_8N_8$ oxyhydrazonäthan (R. 16, 333). — *III, 231.
- C₁₈H₁₉O₃N₅ 2) Benzylidenhydrazid d. β -Phenylureïdoacetylamidoessigsäure. Sm. 243° u. Zers. (*J. pr.* [2] 70, 256° *C.* 1904° [2] 1464). C₁₈H₁₉O₄N *15) Apocorydalin. HCl, HJ (Ar. 241, 652° C. 1904° [1] 182).
- - 16) 24-Methyläther-6-Aethyläther d. 4-Oximido-6-Oxy-2-[4-Oxyphenyl]-2,3-Dihydrobenzpyran. Sm. 190-191° (B. 33, 1484). -*III, 560.
 - 17) 4²-Acetat d. 4-[Acetyl-2-Oxybenzyl]amido-1-Oxybenzol-1-Methyläther (Ar. 240, 682 C. 1903 [1] 395).
- 1) Tetramethyläther d. β -Chlor- $\alpha \alpha$ -Di[3,4-Dioxyphenyl]äthen. Sm. 98° C18H19O4Cl (A. 329, 44 C. 1903 [2] 1448).
- 10) Anhydrocotarninresorein. Sm. 220° u. Zers. HCl (B. 37, 2743 $C_{18}H_{19}O_5N$ C. 1904 [2] 544).
 - 11) α -[4-Methoxylphenyl]- β -[2-Amido-3,4-Dimethoxylphenyl]akrylsäure. Sm. 176-1770 (B. 35, 4405 C. 1903 [1] 342).

17) α -Aethylimido- α -Benzoyläthylamido- α -Phenylmethan.

91,5°. (2HCl, PtCl₄) (Soc. 83, 323 C. 1903 [1] 581, 876). C18H20O2N2*42) Methyläther d. Benzoylimido-2,4,5-Trimethylphenylamidooxy-

(B. 37, 2328 C. 1904 [2] 313).

2) 3,4,3',4'-Tetramethyläther d. β -Oximido- α -Keto- α β -Di[3,4-Dioxyphenyl]äthan. Sm. 149—150° (A. 329, 52 C. 1903 [2] 1448). 1) α -Benzylidenamido- β -Allyl- α -Benzylthioharnstoff. Sm. 106—107°

 $C_{18}H_{19}O_6N$ C18H19N8S

C₁₈H₂₀ON₂

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methan. Sm. 87—89° (Am. 32, 365 C. 1904 [2] 1507).
             53) Peroxyd d. anti-2,5-Dimethylbenzaldoxim. Sm. 97-98° u. Zers.
                 (G. 32 [2] 481 C. 1903 [1] 831).
            54) 1,3-Xylylendipyridoniumhydroxyd. 2 Chlorid + PtCl<sub>4</sub>, 2 Bromid + Br<sub>4</sub>, 2 Pikrat (B. 36, 1679 C. 1903 [2] 29). 55) d-Benzoyllimonen-\beta-Nitrosocyanid. Sm. 107° (C. 1904 [2] 440;
                 Soc. 85, 932 C. 1904 [2] 705).
             56) \alpha-Phenylhydrazon-\alpha-Phenyl-\beta-Aethylpropan-\gamma-Carbonsäure.
                 136° (C. 1904 [1] 1258).
             57) Methylester d. α-[4-Methylpheryllimido-α-[Methyl-4-Methylphenyl]amidoessigsäure. S. So, (1904 [2] 321, 831).
             58) Aethylester d. 4-Methylphenylimido-4-Methylphenylamidoessig-
                säure. Sm. 98-100°. (2HCl, PtCl,) (Soc. 85, 991 C. 1904 [2] 831)
C_{18}H_{20}O_2N_4*11) \alpha\gamma-Di[4-Methylphenylnitrosamido]-\alpha-Buten. Sm. 165° (A. 329, 222)
             C. 1903 [2] 1428).
17) 1,4,5,8-Tetra [Methylamido] -9,10-Anthrachinon (D. R. P. 144634
                 C. 1903 [2] 750).
             18) Aethylester d. \alpha-[2-Methylphenyl]azo-\alpha-[2-Methylphenyl]hydrazon-
                essigsäure. Sm. 99—100° (Bl. [3] 31, 85 C. 1904 [1] 580).
C_{18}H_{20}O_2Br_2 3) Di[6-Brom-2,4-Dimethylphenyläther] d. \alpha\beta-Dioxyäthan. Sm. 100°
                (B. 36, 2876 C. 1903 [2] 834).
C_{18}H_{20}O_3N_2*23) Diacetylderivat d. 4-Dimethylamido-3'-Oxydiphenylamin. Sm. 101°
                (J. pr. [2] 69, 234 C. 1904 [1] 1269).
           *24) Diacetylderivat d. 4-Dimethylamido-4'-Oxydiphenylamin. Sm. 1310
                (J. pr. [2] 69, 164 C. 1904 [1] 1268).
            25) 6-Methyläther-4,5-Methylenäther d. 4,5,6-Trioxy-2-[β-Methyl-
                amidoäthyl]-1-Phenylimidomethylbenzol (Cotarninanil)." Sm. 1240
            28) Di[Phenylamid] d. \alpha-Oxybutan-\alpha\beta-Dicarbonsäure. Sm. 203—204° (B. 37, 2382 C. 1904 [2] 306).
           · 29) s-Dibenzylamid d. d-Aepfelsäure. Sm. 157° (B. 37, 2128 U. 1904
                [2] 439).
            30) s-Dibenzylamid d. 1-Aepfelsäure. Sm. 155,5° (157°) (Soc. 83, 1325
                C. 1904 [1] 82; B. 37, 2127 C. 1904 [2] 439).
C_{18}H_{20}O_8N_4
             8) \alpha-[\alpha-Benzoylamidoacetylamidoäthyl]-\beta-Phenylharnstoff.
                (J. pr. [2] 70, 121 C. 1904 [2] 1037).
             9) Di[Phenylhydrazon]trioxyhexahydrobenzol.
                                                                   Sm. 209 (Soc. 85.
                628 C. 1904 [2] 329).
            10) Hydrazid d. \alpha-Benzoylamidoacetylamido-\beta-Phenylpropionsäure.
                Sm. 183°. HCl (J. pr. [2] 70, 227 C. 1904 [2] 1461).
C<sub>18</sub>H<sub>20</sub>O<sub>4</sub>N<sub>2</sub>*12) 2 - Methylphenylamid d. d - Weinsäure. Sm. 184-185° (Soc. 83,
                1357 C. 1904 [1] 84).
           *13) 3 - Methylphenylamid d. d - Weinsäure. Sm. 1840 (Soc. 83, 1358
                C. 1904 [1] 84).
           *14) 4-Methylphenylamid d. d-Weinsäure. Sm. 240° u. Zers. (Soc. 83,
            1356 C. 1904 [1] 84).
22) Diäthylester d. s-Diphenylhydrazin-4,4'-Dicarbonsäure. Sm. 118°
                (A. 326, 333 C. 1903 [1] 1130).
            23) Benzylamid d. d-Weinsäure. Sm. 199° (Soc. 83, 1362 C. 1904 [1] 84).
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1) Nitrocodein (Methyläther d. Nitromorphin) (A. 77, 341; H. 38, 162).

- III, 903; *III. 672.

- $C_{18}H_{20}O_6N_2$ 3) Di[Phenylamidoformiat] d. Dulcid. Sm. 233° (C. r. 139, 638 C. 1904 [2] 1536).
- $C_{18}H_{20}O_8N_2 *2)$ Tetramethyläther d. $\alpha\beta$ -Di[6-Nitro-3, 4-Dioxyphenyl]äthan. Sm. 205 bis 206° (M. 23, 890 C. 1904 [2] 1313).
- 1) 4,4'-Biphenylenamid d. Thiopropionsäure. Sm. 228-229° (B. 37, C, H, N, S, 876 C. **1904** [1] 1004).
- 1) Sulfid d. Aethylphenylamidodithioameisensäure. Sm. 115° (B. 36. $C_{18}H_{20}N_2S_8$ 2282 C. 1903 [2] 560).
- *2) Disulfid d. Aethylphenylamidodithioameisensäure. Sm. 170° (B. 36, $C_{18}H_{20}N_2S_4$ 2274 C 1903 [2] 563).
- $C_{18}H_{20}N_{8}J$ 2) 2-Jodmethylatd. 5-Methylphenylamido-3-Methyl-I-Phenylpyrazol. Sm. 194° (B. 36, 3277 C. 1903 [2] 1189).
- $C_{18}H_{21}ON$ *9) 4-tert. Amylphenylamid d. Benzolcarbonsäure. Sm. 158° (A. 327, 223 C. 1903 [1] 1408).
 - 10) 1-α-Phenyläthylamid d. d-β-Phenylisobuttersäure. Sm. 119—122,5°
 (Soc. 85, 448 C. 1904 [1] 1445).
- 20) Methyläther d. 4 Diäthylamido 3' Oxydiphenylketon. Sm. 120 $C_{18}H_{21}O_{2}N$ bis 121° (D.R.P. 65952). - *III, 153.
 - 21) Benzoat d. α -Dimethylamido- β -Oxy- β -Phenylpropan. HCl (C. r. **138**, 768 *C*. **1904** [1] 1196).
 - 22) Phenylamidoformiat d. β -Oxy- δ -Phenyl- β -Buten. Sm. 143—144° (B. 37, 2314 C. 1904 [2] 217).
- C 63.7 H 6.2 O 9.4 N 20.6 M. G. 339. $C_{18}H_{21}O_2N_5$ 1) β -Methyl- α -Phenylhydrazid d. α -Methyloximido- β -Phenylhydrazonbuttersäure. Zers. bei 208° (A. 328, 69 C. 1903 [2] 249).
- 18) α-Phenylamidoformiat d. α-Oxy-α-[3-Oxyphenyl] butan-3-Methyläther. Sm. 63-64° (B. 37, 3999 C. 1904 [2] 1641).
 19) α-Phenylamidoformiat d. 5-Oxy-2-[α-Oxypropyl]-1-Methylbenzol- $C_{18}H_{21}O_8N$
 - 5-Methyläther. Sm. 94-95° (B. 37, 3994 C. 1904 [2] 1640).

 - 20) α-Phenylamidoformiat d. 4-Oxy-3-[α-Oxypropyl]-I-Methylbenzol-4-Methyläther. Sm. 91° (B. 37, 3995 C. 1904 [2] 1640).
 21) α-Phenylamidoformiat d. 6-Oxy-3-[α-Oxypropyl]-I-Methylbenzol-6-Methyläther. Sm. 78° (B. 37, 3992 C. 1904 [2] 1640).
 - 22) α -Phenylamidoformiat d. 2-Oxy-1-[α -Oxypropyl]benzol-2-Aethyläther. Sm. 95-96° (B. 37, 3989 C. 1904 [2] 1639).
- C 60,9 H 5,9 O 13,5 N 19,7 M. G. 355. $C_{18}H_{21}O_3N_5$ 1) Phenylamido-4-Nitrophenylhydrazonmethyläther d. 1-Oxyhexahydropyridin. Sm. 211° (B. 37, 3237 C. 1904 [2] 1153).
- $C_{18}H_{21}O_4N$
- nydropyridim. Sin. 211° (B. 37, 525° (C. 1904 [2] 1155).

 12) Oxycodeïn. Sm. 207—208° (B. 36, 3068 C. 1903 [2] 953).

 13) 4-Aethoxylphenylamidoformiat d. 3, 4-Dioxy-1-Propylbenzol. Sm. 122° (C. r. 138, 425 C. 1904 [1] 798).

 2) Verbindung (aus 1,3,5-Trioxybenzoltrimethyläther). + C₂H₆O, HNO₆ (Ar. 242, 511 C. 1904 [2] 1386). $C_{18}H_{21}O_{6}N$
- 4) Aethyläther d. α -[β -2-Methylphenylthioureïdo]- α -[2-Methylphenyl]- $C_{18}H_{21}N_{3}S_{2}$ imido- α -Merkaptomethan. Sm. 86 – 87° (Am. 30, 181 C. 1903 [2] 873).
- 1) ?-Joddi[4-Propylphenyl]jodoniumchlorid. Zers. bei 43°. + HgCl₂, $C_{18}H_{21}ClJ_2$
 - 2 + PtCl₄ (A. 327, 316 C. 1903 [2] 354).
 2) P-Jod-4, 4'-Dimethyl-2, 2'-Diäthyldiphenyljodoniumehlorid. Sm. 157° u. Zers. 2 + PtCl₄ (J. pr. [2] 69, 443 C. 1904 [2] 590).
 1) P-Joddi[4-Propylphenyl]jodoniumbromid. Sm. 45° (A. 327, 316)
- $C_{18}H_{21}BrJ_{2}$ C. 1903 [2] 354).
 - 2) ?-Jod-4,4'-Dimethyl-2,2'-Diathyldiphenyljodoniumbromid. Sm. 1510 (J. pr. [2] 69, 443 C. 1904 [2] 589).

 1) P-Jod-4, 4'-Dimethyl-2, 2'-Diathyldiphenyljodoniumhydroxyd.
- $C_{18}H_{22}OJ_2$
- Salze siehe (J. pr. [2] 69, 442 C. 1904 [2] 589).

 C₁₈H₂₂O₂N₂ 18) Diäthyläther d. α-Phenylhydrazon-α-[2, 4-Dioxyphenyl]äthan.
 Sm. 109° (B. 37, 366 C. 1904 [1] 671).
 - 19) 3, 6 Di[Dimethylamido] 9 Oxy 9 Methylxanthen. 2 Chlorid + PtCl₄ (B. 27, 2895). *III, 569.
- C₁₈H₂₂O₃N₂ 13) Phenylbenzylhydrazon d. Parasaccharopentose. Sm. 112—114° (B. 37, 1201 C. 1904 [1] 1197).
- 4) Di[Phenylhydrazon] d. Fukose. Sm. 177,5° (B. 37, 3860 C. 1904 $C_{18}H_{22}O_3N_4$ [2] 1712).

$\mathbf{C_{18}H_{22}O_{8}N_{4}}$	5) Di[Phenylhydrazon] d. act. Rhodeose. Sm. 176,5° (B. 37, 3859) C. 1904 [2] 1712).
	6) Di[Phenylnydrazon] d. r-Rhodeose. Sm. 187° (B. 37, 3861 C. 1904 [2] 1712).
$\mathbf{C_{18}H_{22}O_4N_2}$	*9) Tetramethyläther d. 4,4'-Di[Dioxymethyl]azobenzol (C. r. 138, 289 C. 1904 [1] 722).
	10) Diphenylhydrazon d. Fukose. Sm. 198° (B. 37, 306 C. 1904 [1] 649). 11) Tetramethyläther d. 2,2'-Di[Dioxymethyl]azobenzol. Sm. 144°
	(C. r. 138, 289 C. 1904 [1] 722). 12) Tetramethyläther d. 3,3'-Di[Dioxymethyl]azobenzol. Sm. 86°
	(C. r. 138, 289 C. 1904 [1] 722). 13) Tetramethyläther d. 4,4'-Di[Dioxymethyl]azobenzol. Sm. 118°;
$C_{18}H_{22}O_4N_4$	Sd. 250° ₁₅₋₃₀ (Bl. [3] 31 , 453 C. 1904 [1] 1498). 19) Di[Phenylhydrazon] d. Cocaose. Sm. 179—180° (J. pr. [2] 66, 408
$C_{18}H_{22}O_4S_2$	 C. 1903 [1] 527). *1) αβ-Di[2,4-Dimethylphenylsulfon]äthan. Sm. 163° (J. pr. [2] 68, 311 C. 1903 [2] 1115).
$\mathbf{C}_{18}\mathbf{H}_{22}\mathbf{O_7N_2}$	C 57,1 — H 5,8 — O 29,6 — N 7,4 — M. G. 378. 1) Hexamethyläther d. 2,4,6,2',4',6'-Hexaoxydiphenylnitrosamin.
$\mathbf{C}_{18}\mathbf{H}_{22}\mathbf{NBr}$	Sm. 193° (Ar. 242, 510 C. 1904 [2] 1386). 1) Methylallylbenzyl-4-Methylphenylammoniumbromid. Sm. 146 bis
$C_{18}H_{22}NJ$	147° u. Zers. (B. 37, 2723 C. 1904 [2] 592). 3) Methylallylbenzyl-2-Methylphenylammoniumjodid. Sm. 154—155°
	(B. 37, 3897 C. 1904 [2] 1612). 4) isom. Methylallylbenzyl-2-Methylphenylammoniumjodid (B. 37,
	3898 C. 1904 [2] 1612). 5) Methylallylbenzyl - 4 - Methylphenylammaniumicdid. Zers hei
	144—146° (Ph. Ch. 45, 238 C. 1903 2 ; A. 37, 2 1904 [2] 592). 6) Jodäthylat d. 1-Benzyl-1, 2, 3, 4-Tetrahydrochinolin. Sm. 105—106°
$\mathbf{C_{18}H_{22}ClJ}$	(Soc. 83, 1417 C. 1904 [1] 439). 2) Di[4-Propylphenyl]jodoniumechlorid. Sm. 143°. + HgCl ₂ , 2 + PtCl ₄
	(A. 327, 310 C. 1903 [2] 353). 3) 4,4'-Dimethyl-2,2'-Diäthyldiphenyljodoniumchlorid. Sm. 120°. + HgCl ₂ , 2 + PtCl ₄ (J. pr. [2] 69, 441 C. 1904 [2] 589).
$\mathbf{C_{18}H_{22}BrJ}$	2) Di[4-Propylphenyl]jodoniumbromid. Sm. 158° (A. 327, 311 G. 1903 [2] 353).
•	3) 4,4'-Dimethyl-2,2'-Diäthyljodoniumbromid. Sm. 162° (<i>J. pr.</i> [2] 69, 440 <i>C.</i> 1904 [2] 589).
$\mathbf{C_{18}H_{28}ON}$	*1) Methylphenylamidomethylencampher (C . r . 136, 1223 C . 1903 [2] 116).
	3) Methylallylbenzyl-4-Methylphenylammoniumhydroxyd. Salze siehe (B. 37, 2720 C. 1904 [2] 592).
	4) Aethylhydroxydd.1-Benzyl-1,2,3,4-Tetrahydrochinolin. d-Camphersulfonat (Soc. 83, 1418 C. 1904 [1] 439).
$C_{18}H_{28}OJ$	2) Di [4 - Propylphenyl] jodoniumhydrat. Salze siehe (4. 327, 310 C. 1903 [2] 353).
	3) 4,4'-Dimethyl-2,2'-Diäthyldiphenyljodoniumhydroxyd. Salze siehe (<i>J. pr.</i> [2] 69, 440 <i>C.</i> 1904 [2] 589).
$\mathbf{C_{18}H_{28}O_4N}$	7) Aethylester d. isom. Benzoylecgonin. Sm. 110—111° (C. 1899 [1] 848). — *III, 645.
$\mathrm{C_{18}H_{28}O_{5}N}$	2) Anhydrocotarninacetonylaceton. Sm. 147—149°. HCl, (2HCl, PtCl ₄) (B. 37, 2746 C. 1904 [2] 545).
$\mathbf{C_{18}H_{28}O_6N}$	2) Hexamethyläther d. 2, 4, 6, 2', 4', 6'-Hexaoxydinhenylamin Sm 1420
	(Ar. 242, 509 C. 1904 [2] 1386).

3) Aethylester d. Anhydrocotarninacetessigsäure. Sm. 59-60°. HCl,

1) α -[α -Benzoylamidoacetylamidobisamidopropion-l'amidopropion-säure. Sm. 230° (J. pr. [2] 70, 127 C. 1904 2

5) Actaylester d. Annydrocotarninacetessigsaure. Sm. 59-00°. HOI, (2 HCl, PtCl₄) (B. 37, 2746 C. 1904 [2] 545).
 4) Diäthylester d. Anhydrohydrastininmalonsäure. Sm. 55-57° (B. 37, 2742 C. 1904 [2] 544).
 C₁₈H₂₄O₄N₂
 C₁₈H₂₄O₄N₄
 C₁₈H₂₄O₆N₄
 C₁₈H₂₄

- C 50.4 H 5.6 O 37.4 N 6.6 M. G. 428. C, H, O, N 1) Dimethylester d. $\delta \varepsilon$ -Diacetoximido- $\gamma \zeta$ -Diketo- $\beta \eta$ -Dimethyloktan- $\beta\eta$ -Dicarbonsäure (Soc. 83, 1261 C. 1903 [2] 1423). 2) Semicarbazon d. Benzyltanaceton. Sm. 195° (B. 36, 4370 C. 1904 C19H95ON3 [1] 455). 1) Verbindung (aus Cholsäure). Sm. 130° u. Zers. (C. 1903 [2] 728). C 67,7 — H 7,8 — O 20,1 — N 4,4 — M. G. 319. $\mathbf{C_{18}H_{25}O_{8}Br}$ C, H, O, N 1) Hydroxylaminderivat d. 1-Piperonylidenmenthon. Sm. 173-1740 (C. 1904 [2] 1046). C 75.5 - H 9.1 - O 5.6 - N 9.8 - M. G. 286.C18H24ON2 1) α -[4-Methylphenyl]- β -Bornylharnstoff. Sm. 198° (Soc. 85. 1192) C. 1904 [2] 1125).

 1) Benzoat d. $\alpha\beta$ -oder- $\beta\gamma$ -Dibrom- β -Oxyundekan. Fl. (Soc. 81, 150) C18H26O2Br C. 1903 [1] 436). C 61.7 - H 7.4 - O 22.9 - N 8.0 - M. G. 350.C18H28O5N2 1) $\alpha - [\alpha - \text{Carbathoxylamidoisocapronyl}]$ amido $-\beta$ -Phenylpropionsaure. Sm. 140—141,5° (B. 37, 3310 C. 1904 [2] 1306). C 48,0 — H 5,8 — O 21,3 — N 24,9 — M. G. 450. $C_{18}H_{28}O_8N_8$ 1) Tetraacetylderivat d. Verb. C₁₀H₁₈O₂N₈. Sm. 178° u. Zers. (B. 36, 1300 C. 1903 [1] 1256). 1) Diäthylester d. 1,3-Phenylendi [α-Sulfonbuttersäure]. Sm. 96° (J. vr. C19H9BOSS [2] 68, 328 C. 1903 [2] 1171).
 3) Hydroxylaminderivat d. 1-p-Anisylidenmenthon. Sm. 165-166° $C_{18}H_{87}O_8N$ (C. **1904** [2] 1046). 4) 4-Methylphenylmonamid d. cis- $\beta\zeta$ -Dimethylheptan- $\gamma\delta$ -Dicarbonsäure. Sm. 156—157° (Am. 30, 238 C. 1903 [2] 934).
 3) Methyloxydhydrat d. Atropin. Nitrat, Sulfat (D. R. P. 138443 C. 1903 C18 H07 O4N [1] 427). 4) 2-Nitrophenylester d. Laurinsäure. Sm. 35-36° (A. 332, 205 C. 1904 [2] 211). *1) Chondroitin (H. 37, 411 C. 1903 [1] 1146). $C_{18}H_{27}O_{14}N$ 3) Phenylamidoformiat d. a-Oxyundekan. Sm. 55-55,5° (Bl. [3] 31, 51 C19H29O2N C. 1904 [1] 507). 4) Phenylamid d. α-Oxyundekan-α-Carbonsäure. Sm. 83° (Bl. [3] 29, 1127 C. 1904 [1] 261). 5) 2-Oxyphenylamid d. Laurinsäure. Sm. 68-69 (A. 332, 206 C. 1904 [2] 211). C 74,5 — H 10,3 — O 5,5 — N 9,6 — M. G. 290.
 1) Phenylhydrazid d. Laurinsäure. Sm. 105° (Bl. [3] 29, 1122 C. 1904 C18H20N2 [1] 259). $C^{63.9} - H_{8.9} - O_{18.9} - N_{8.3} - M_{6.338}$ C18H80O4N2 1) Verbindung (aus Nitrosodihydrolaurolaktam). Sm. 327-328° (Am. 32, 1223 C. 1904 [2] 1223). $C_{18}H_{32}O_{2}Br_{4}$ 7) Elaeomargarinsäuretetrabromid. Sm. 114° (Soc. 83, 1044 C. 1903 [2] 657). C 77,4 — H 11,8 — O 5,7 — N 5,0 — M. G. 279. C18H38ON 1) Amid d. α-Heptadeken-α-Carbonsäure. Sm. 107-108° (G. 34 [2] 85 C. 1904 [2] 694). 2) Amid d. Chaulmoograsaure. Sm. 106° (Soc. 85, 855 C. 1904 [2] 348, 604). *1) Bromölsäure (J. pr. [2] 67, 308 C. 1903 [1] 1404). $C_{18}H_{88}O_{9}Br$ 3) Bromdihydrochaulmoograsaure. Sm. 36-38° (Soc. 85, 856 C. 1904 [2] 348, 856). $C_{18}H_{34}O_{2}Br_{2}$ *1) Dibromstearinsäure (aus Elaïdinsäure). Sm. 26—28° (*J. pr.* [2] 67, 291 O. 1903 [1] 1404). 5) αβ-Dibromstearinsäure. Sm. 72° (G. 34 [2] 85 C. 1904 [2] 694). C 57,7 — H 9,1 — O 25,7 — N 7,5 — M. G. 374. C18H34O6N2
- 1) Jodmethylat-Jodäthylat d. Spartein. Sm. 239 (Ar. 242, 516 C. 1904 C18H84N2J2 [2] 1412). 2) isom. Jodmethylat-Jodäthylat d. Spartein. Sm. 246° (Ar. 242, 516)
 - C. 1904 [2] 1412).

1) Nitrit d. Nitrooxystearinsäure. Sm. 85-87° (C. 1904 [1] 260).

4) Nitril d. α-Oxyheptadekan-α-Carbonsäure. Sm. 61,5—62,5° (Soc. 85, C18H85ON 834 *Q.* **1904** [2] 509).

C₁₈H₁₄ONCl

[2] 1474).

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C<sub>18</sub>H<sub>35</sub>OCl 2) Chlorid d. \lambda-Isostearinsäure. Fl. (Ar. 241, 18 C. 1903 [1] 698). C<sub>18</sub>H<sub>35</sub>O<sub>2</sub>Br *1) \alpha-Bromstearinsäure. Sm. 57—58° (G. 34 [2] 79 C. 1904 [2] 693).
                 3) \beta-Chloräthylester d. Palmitinsäure. Sm. 44°; Sd. 138° (B. 36, 4340)
C<sub>18</sub>H<sub>35</sub>O<sub>2</sub>Cl
                     C. 1904 [1] 433).

 β-Bromäthylester d. Palmitinsäure. Sm. 62°; Sd. 144°, (B. 36, 4340)

C18 H35 O2 Br
                     C. 1904 [1] 433).
                *1) α-Jodstearinsäure. Sm. 66° (G. 34 [2] 80 C. 1904 [2] 693).
C_{18}H_{35}O_{2}J
                 6) γ-Oximidoheptadekan-α-Carbonsäure. Sm. 85° (C. 1903 [1] 826;
C_{18}H_{35}O_3N
                     J. pr. [2] 67, 418 C. 1903 [1] 1405).
                 7) Tetradekylmonamid d. Bernsteinsäure. Sm. 1230 (C. 1903 [1] 826;
                    \overline{J}, pr. [2] 67, 419 C. 1903 [1] 1405). C 63,3 — H 10,3 — O 14,1 — N 12,3 — M. G. 341.
C_{18}H_{85}O_{8}N_{8}

    Myristat d. β-Semicarbazon-α-Oxypropan. Sm. 111-112° (C. r. 138, 1275 C. 1904 [2] 94).

                 C 62,6 — H 10,1 — O 23,2 — N 4,1 — M. G. 345.

1) P-Nitrooxystearinsäure. Fl. (C. 1904 [1] 260).

C 50,3 — H 8,2 — O 18,6 — N 22,8 — M. G. 429.
C_{18}H_{85}O_5N
C<sub>18</sub>H<sub>85</sub>O<sub>5</sub>N<sub>7</sub>
                 1) Verbindung (aus Trypsin). 4HNO<sub>8</sub> + 2AgNO<sub>8</sub> (H. 25, 190). - *III,
                    689.
                    C 69,4 - H 11,9 - O 5,1 - N 13,5 - M. G. 311.
C<sub>18</sub>H<sub>87</sub>ON<sub>3</sub>
                 1) α-Semicarbazonheptadekan. Sm. 107-108° (Noc. 85, 833 C. 1904
                    [1] 638 C. 1904 [2] 509).
                 4) Amid d. α-Oxyheptadekan-α-Carbonsäure. Sm. 148-149° (Soc. 85,
C<sub>18</sub>H<sub>37</sub>O<sub>2</sub>N
                    831 C. 1904 [2] 509).
C 68,6 — H 11,7 — O 15,2 — N 4,4 — M. G. 315.
C_{18}H_{37}O_{3}N
                 1) P-Amidooxystearinsäure. HCl (C. 1904 [1] 260).
                 1) Diisobutylamidodi[1-Piperidyl] phosphin. Fl. (A. 326, 171 C. 1903
C18H88N8P
                     11 762).
                 1) Tri[Dipropylamido] phosphin. Sd. 310-315° (A. 326, 170 C. 1903
C_{18}H_{42}N_{3}P
                    [1] 762).
                                             - 18 IV -
                     1) 2 Molec. 2,4[oder 4,6]-Dijod-1,3-Dinitrobenzol + 2,4,6-Trijod-
C_{18}H_5O_{12}N_6J_5
                    1,3-Dinitrobenzol. Sm. 182° (Am. 32, 306 C. 1904 [2] 1385).
1) Tetrachlorbisdioxymethylenindigo (B. 36, 2934 C. 1903 [2] 888).
C18H6O6N2Cl4
C<sub>18</sub>H<sub>9</sub>O<sub>4</sub>Cl<sub>6</sub>P
                    1) Tri[P-Dichlorphenylester] d. Phosphorsäure. Sm. 96° (I).R.P.
                        142832 C. 1903 [2] 171).
                    1) Tetrabromdihydro-\beta-Chinophtalin. Sm. 78° (B. 37, 3022 C. 1904)
C<sub>18</sub>H<sub>10</sub>ON<sub>2</sub>Br<sub>4</sub>
                        [2] 1410).
                    2) Bromisochinophtalon. Sm. 275° (B. 37, 3020 C. 1904 [2] 1410).
C<sub>18</sub>H<sub>10</sub>O<sub>2</sub>NBr
                    3) 3-Brom-7[oder 8]-Phenylhydrazon-8[oder 7]-Ketonaphtacen.
\mathbf{C}_{18}\mathbf{H}_{11}\mathbf{ON}_{2}\mathbf{Br}
                        Sm. 153° (A. 327, 89 C. 1903 [1] 1228).
C_{18}H_{12}ON_4Br_2
                     1) ?-Di[2-Bromphenylazo]-1-Oxybenzol.
                                                                               Sm. 160° (B. 36, 3864
                        C. 1904 [1] 91).
                     2) P-Di[3-Bromphenylazo]-1-Oxybenzol. Sm. 162—163 ° (B. 36, 3867)
                        C. 1904 [1] 92).
\mathbf{C}_{18}\mathbf{H}_{12}\mathbf{O}_{2}\mathbf{N}_{2}\mathbf{Br}_{2}
                    2) 3,6-Dibrom-4,5-Di[Phenylamido]-1,2-Benzochinon. Sm. 160°.
                          -CH_4O, +C_2H_6O, + Anilin (B. 35, 3852 C. 1903 [1] 26; Am. 30,
                        526 C. 1904 [1] 366).
C_{18}H_{12}O_{3}N_{4}S
                     1) Homofluorindin-2-Sulfonsäure (B. 36, 4034 C. 1904 [1] 205).
C<sub>18</sub>H<sub>12</sub>O<sub>4</sub>Cl<sub>3</sub>P
                     2) Tri[?-Chlorphenylester] d. Phosphorsäure. Sm. 1180 (D.R.P.
                        142832 C. 1903 [2] 171).
                    1) Diacetat d. \alpha\beta-Dibrom-\alpha\beta-Di[3,5-Dichlor-4-Oxyphenyl|äthan.
C_{18}H_{12}O_4Cl_4Br_2
                        Sm. 218° (A. 325, 66 C. 1903 [1] 463).
C<sub>18</sub>H<sub>18</sub>ONS,
                     1) 2-Thiocarbonyl-4-Keto-3-Phenyl-5-Cinnamylidentetrahydro-
                         thiazol. Sm. 217° (M. 24, 513 C. 1903 [2] 837).
C_{18}H_{18}ON_4Br
                     1) 3-Phenylazo-4-[4-Bromphenyl|azo-1-Oxybenzol. Sm. 115^{\circ} (B. 36,
                        4116 C. 1904 [1] 272).
C_{18}H_{18}O_3NS_2
                     1) Acetat d. 2-Thiocarbonyl-4-Keto-5-[2-Oxybenzyliden-3-
                        Phenyltetrahydrothiazol. Sm. 202° (M. 25, 166 C. 1904 [1] 884).
\mathbf{C}_{18}\mathbf{H}_{18}\mathbf{O}_{5}\mathbf{N}_{4}\mathbf{C}\mathbf{1}
                     1) 1-Acetylamido - 2-[5-Chlor-2,4-Dinitrophenyl amidonaphtalin
                        (B. 37, 3888 C. 1904 [2] 1654).
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2) Chlormethylat d. 7-Oxy-1,2-Naphtakridin (B. 37, 3081 C. 1904

$\mathbf{C_{18}H_{14}N_{2}ClJ}$	1) 4 - Phenylazodiphenyljodoniumchlorid. Sm. 205°. + HgCl ₂ , 2 + PtCl ₄ (B. 37, 1313 C. 1904 [1] 1341).
$\mathbf{C_{18}H_{14}N_{2}BrJ}$	1) 4 - Phenylazodiphenyljodoniumbromid. Sm. 135° (B. 37, 1314 C. 1904 [1] 1341).
$\mathbf{C_{18}H_{15}ON_{2}J}$	1) 4-Phenylazodiphenyljodoniumhydroxyd. Salze siehe (B. 37, 1313 C. 1904 [1] 1341).
$\mathbf{C_{18}H_{15}O_{2}NS}$	*1) Diphenylamid d. Benzolsulfonsäure. Sm. 122—123° (B. 36, 2706 C. 1903 [2] 829).
$\mathbf{C_{18}H_{15}O_{2}N_{2}J}$	1) Jodmethylat d. α-[2-Nitrophenyl]-β-[4-Chinolyl]äthen. Sm. 237° (B. 36, 1670 C. 1903 [2] 49).
$\mathbf{C_{18}H_{15}O_{4}NCl_{4}}$	1) 3, 4, 5, 6 - Tetrachlor - 4' - Diäthylamido - 2' - Oxydiphenylketon- 2-Carbonsäure (D.R.P. 118077 C. 1901 [1] 602). — *II, 1094.
$\mathrm{C_{18}H_{15}O_4NBr_2}$	1) Methylester d. $\gamma \delta$ -Dibrom- α -[4-Nitrophenyl]- δ -Phenyl- α -Buten- α -Carbonsäure. Sm. 133—136° (A. 336, 220 C. 1904 [2] 1733).
$\mathrm{C_{18}H_{15}O_4NS_2}$	*2) Phenylimid d. Benzolsulfonsäure. Sm. 143—144° (C. r. 137, 714 C. 1903 [2] 1428).
$\mathrm{C_{18}H_{15}O_5NS}$	 4-Methylbenzolsulfonat d. α-Cyan-β-Oxy-β-Phenylakrylsäure- methylester. Sm. 97—98° (Bl. [3] 31, 339 C. 1904 [1] 1135).
$C_{18}H_{15}O_{18}N_7S$	1) O-Amyläther-S-2,4,6-Trinitrophenyläther d. 2,4,6-Trinitrophenylimidomerkaptooxymethan. Sm. 138,5° (Soc. 85, 649 C. 1904 [2] 310).
$\mathbf{C_{18}H_{16}O_{2}N_{2}Br_{2}}$	2) 4, 3-Dibrom-1, 5-Di[Dimethylamido]-9, 10-Anthrachinon. Sm. 236° (D.R.P. 146691 C. 1903 [2] 1352).
$C_{18}H_{16}O_8N_4S$	1) 2-[4-Dimethylamidophenyl]imido-4-Keto-5-[4-Nitrobenzyliden]-tetrahydrothiazol (C. 1903 [1] 1258).
$\mathrm{C_{18}H_{16}O_{3}ClBr}$	*1) δ -Acetat d. isom. γ -Chlor- γ -Brom- $\alpha\delta$ -Dioxy- $\alpha\delta$ -Diphenyl- α -Buten (α -Acetylchlorbromdiphenacyl). Sm. 122 $^{\circ}$ (B. 36, 2398 C. 1903 [2] 498).
	 *2) δ-Acetat d. isom. y-Chlor-y-Brom-αδ-Dioxy-αδ-Diphenyl-α-Buten (β-Acetylchlorbromdiphenacyl). Sm. 91° (B. 36, 2397 C. 1903 [2] 498). 3) δ-Acetat d. isom. y-Chlor-y-Brom-αδ-Dioxy-αδ-Diphenyl-α-Buten.
	Sm. 104° (114°) (B. 36, 2396 C. 1903 [2] 498).
$C_{18}H_{16}O_4N_2S_2$	*6) Di[Phenylamid] d. Benzol-I, 3-Disulfonsäure. Sm. 150° (Soc. 85, 1187 C. 1904 [2] 1115).
$\mathbf{C}_{18}\mathbf{H}_{18}\mathbf{O_4N_2S_3}$	1) Diacetylderivat d. Farbstoffs $C_{14}H_{12}O_2N_2S_8$ (J. pr. [2] 69, 170 C. 1904 [1] 1268).
$\mathrm{C_{18}H_{16}O_5N_8Br}$	1) 3-Brom-P-Dinitro-4'-[1-Piperidyl]diphenylketon. Sm. 76° u. Zers. (B. 37, 3486 C. 1904 [2] 1131).
$C_{18}H_{17}ON_8S$	1) 1 - Benzylidenamido - 2 - Thiocarbonyl - 4 - Keto - 5 - Dimethyl - 3 - Phenyltetrahydroimidazol. Sm. 135° (C. 1904 [2] 1027).
$\mathbf{C}_{18}\mathbf{H}_{17}\mathbf{ON}_{4}\mathbf{Cl}$	2) Aethyläther d. 5-Chlor-4-[4-Oxyphenyl]-3-Methyl-1-Phenyl-pyrazol. Sm. 123° (D.R.P. 153861 C. 1904 [2] 680).
$\mathrm{C_{18}H_{17}O_{2}NBr_{2}}$	1) Acetat d. 1-[3,5-Dibrom-2-Oxybenzyl]-1,2,3,4-Tetrahydro- chinolin. Sm. 105° (A. 332, 224 C. 1904 [2] 203).
$\mathbf{C}_{18}\mathbf{H}_{17}\mathbf{O}_{2}\mathbf{N}_{2}\mathbf{P}$	*1) Di[Phenylamid] d. Phosphorsäuremonophenylester. Sm. 179,5° (169°) (A. 326, 247 C. 1903 [1] 868).
$C_{18}H_{17}O_8NS$	6) 2-[2,4-Dimethylphenyl]amidonaphtalin-6-Sulfonsäure (C. 1904) [1] 1013).
$\mathbf{C_{18}H_{17}O_{3}N_{4}P}$	1) Di[Phenylamid]-3-Nitrophenylamid d. Phosphorsäure. Sm. 177° (A. 326, 237 C. 1903 [1] 867).
	2) Di [Phenylamid]-4-Nitrophenylamid d. Phosphorsäure. Sm. 272° (A. 326, 237 C. 1903 [1] 867).
$\mathbf{C}_{18}\mathbf{H}_{17}\mathbf{O}_{4}\mathbf{NCl}_{2}$	1) 3,6-Dichlor-4'-Diäthylamido-2'-Oxydiphenylketon-2-Carbon- säure (D.R.P. 118077 C. 1901 [1] 602). — *II, 1094.
$\mathbf{C_{18}H_{17}O_{4}NS}$	3) 2 - [4 - Aethoxylphenyl]amidonaphtalin - 6 - Sulfonsäure. NH ₄ (C. 1904 [1] 1013). 4) 2 - [4 - Aethoxylphenyl]amidonaphtalin - 8 - Sulfonsäure (C. 1904 [1] 1013).
$C_{18}H_{17}O_5NS$	2) 7-[4-Aethoxylphenyl]amido - 1 - Oxynaphtalin - 3 - Sulfonsaure (C. 1904 [1] 1013).
$\mathbf{C}_{18}\mathbf{H}_{18}\mathbf{ONJ}$	1) Jodmethylat d. 4-[4-Oxybenzyl]isochinolin-4-Methylather. Sm. 219° u. Zers. (A. 326, 296 C. 1903 [1] 929).
$egin{array}{l} \mathbf{C_{18}H_{18}ON_{3}P} \\ \mathbf{C_{18}H_{18}ON_{4}S_{2}} \end{array}$	*2) Tri[Phenylamid] d. Phosphorsäure (C. r. 139, 206 C. 1904 [2] 647). 3) 1-Phenylthioureïdo-2-Thiocarbonyl-4-Keto-5-Dimethyl-8-Phenyltetrahydroimidazol. Zers. bei 233° (C. 1904 [2] 1027).

$\mathbf{C_{18}H_{18}O_{2}NCl}$	1) α-[3-Chlorphenyl]amido-β-Acetyl-γ-Keto-α-Phenylbutan. Sm. 93-94° (Soc. 85, 1175 C. 1904 [2] 1215).
	2) α -[4-Chlorphenyl]amido- β -Acetyl- γ -Keto- α -Phenylbutan. Sm.
$C_{18}H_{18}O_2N_2Br_4$	1) 1,4-Di[3,5-Dibrom-2-Oxybenzyl]hexahydro-1,4-Diazin. Sm. 240 bis 249% (4, 332, 222 C, 1904 [2] 203).
$\mathbf{C_{18}H_{18}O_{2}N_{2}S}$	2) 2-Acetatd. 2-Merkapto-6-Oxy-1-[4-Methylphenyi] benzimidazol- 6-Aethyläther. Sm. 145° (B. 36, 3851 C. 1904 [1] 89).
$\mathbf{C_{18}H_{18}O_{8}NBr}$	1) α -[α -Brom- β -Phenylpropionyl]amido- β -Phenylpropionsaure. Sm. 174—175° (B . 37. 3068 C . 1904 [2] 1208).
$\mathbf{C_{18}H_{19}ON_{2}J}$	2) Jodmethylat d. 2-Acetylamido-3,7-Dimethylakridin (Soc. 85, 532 C. 1904 [1] 1525).
$\mathrm{C}_{18}\mathrm{H}_{19}\mathrm{O}_{2}\mathrm{NBr}_{2}$	 N-Acetyl-2,4,5-Trimethylphenyl-3,5-Dibrom-2-Oxybenzylamin. Sm. 120-121° (A. 332, 198 C. 1904 [2] 210). Acetat d. Methylphenyl-3,6-Dibrom-4-Oxy-2,5-Dimethylbenzyl-
	amin. Sm. 102—103° (A. 334, 305 C. 1904 [2] 986).
$C_{18}H_{19}O_2N_3S_3$	1) Verbindung (aus 4-Nitrobenzoylchlorid u. Methyläthylphenylthiuramsulfid). Sm. 138° (B. 36, 2284 C. 1903 [2] 561).
$\mathbf{C_{18}H_{19}O_{8}NS}$	1) 4-[4-Methylphenyl]merkapto-2-Methylphenylamid d. Oxalsäuremonoäthylester. Sm. 113-114° (J. pr. [2] 68, 283 U. 1903
	[2] 994). 2) 4-[4-Methylphenyl]merkapto-3-Methylphenylamid d. Oxal-
	säuremonoäthylester. Sm. 113° (J
$\mathrm{C_{18}H_{19}O_{3}N_{2}Br}$	1) 6-Methyläther-4,5-Methylenäther d. 3-Brom-4,5,6-Trioxy-2- [β-Methylamidoäthyl]-1-Phenylimidomethylbenzol (Bromcotar-
	ninanil). Sm. 127° (B. 36, 1535 C. 1903 [2] 52).
$\mathbf{C_{18}H_{19}N_{2}JS}$	1) 2-Jodnethylat d. 5-Merkapto-3-Methyl-1-Phenylpyrazol-
$\mathbf{C_{18}H_{20}ON_2S_2}$	5-Benzyläther. Sm. 174—175° (A. 331, 203 C. 1904 [1] 1218). 2) 5-Methyläther-2-Aethyläther d. 5-Merkapto-2-Oxy-2-Phenyl-
-1820 22	3-[4-Methylphenyl]-2,3-Dihydro-1,3,4-Thiodiazol. Sm. 830
	(J. pr. [2] 67, 260 C. 1903 [1] 1266).
$\mathbf{C_{18}H_{20}O_{2}NBr}$	3) Brommethylat d. Apomorphin (Eupophin). Sm. 180° (<i>C.</i> 1904 [1] 1581).
$\mathbf{C_{18}H_{20}O_{2}N_{2}Se_{2}}$	2) Di Me ² with a mid d. Dimethyldiselenid-αα'-Dicarbon- sia
	3) Di[2-Methylphenylamid] d. Dimethyldiselenid-ua'-Dicarbon-
	säure. Sm. 174—175° (Ar. 241, 204 U. 1903 [2] 104). 4) Di[3-Methylphenylamid] d. Dimethyldiselenid-αα'-Dicarbon-
	säure. Sm. 158° (Ar. 241, 206 C. 1903 [2] 104). 5) Di[4-Methylphenylamid] d. Dimethyldiselenid-au'-Dicarbon-
•	säure. Sm. 174° (Ar. 241, 206 C. 1903 [2] 104).
$\mathrm{C_{18}H_{20}O_{3}N_{4}Br_{2}}$	1) Di[4-Bromphenylhydrazon] d. Rhamnose. Sm. 215° u. Zers. (Soc. 83, 1287 C. 1904 [1] 86).
$\mathrm{C}_{18}\mathrm{H}_{20}\mathrm{O}_3\mathrm{N}_4\mathrm{S}$	1) Dimethyläther d. Acetyldi[?-Ovynhanyl*hiallavandiamin. Sm. 205—206° (B. 36, 3324 C. 1963 ?
$\mathbf{C_{18}H_{20}O_{4}N_{2}Se_{2}}$	1) Di[2-Methoxylphenylamid] d. Dimoretic in the Dicarbonsäure. Sm. 124° (Ar. 241, 214 C. 1903 [2] 104).
	2) Di[4-Methoxylphenylamid] d. Dimethyldiselenid-αα'-Dicarbon-
$\mathbf{C_{18}H_{20}O_{5}N_{2}S_{2}}$	säure. Sm. 172° (Ar. 241, 215 C. 1903 [2] 104). 1) Monophenylhydrazon d. 1,3-Di] Acetonylsulfon benzol. Sm. 152°
$\mathbf{C_{18}H_{20}O_{8}N_{2}S_{2}}$	u. Zers. (J. pr. [2] 68, 326 C. 1903 [2] 1171). 1) 4,4'-Di[Acetylamido]-3,3'-Dimethylbiphenyl-6,6'-Disulfonsäure.
$C_{18}H_{21}O_{2}N_{2}P$	Na. (J. pr. [2] 66, 569 C. 1903 [1] 519). 1) Di[4-Methylphenylamid] d. Phosphorsäuremonoäthylester. Sm.
	108° (A. 326 , 249 C. 1903 [1] 868).
$C_{18}H_{22}O_4NBr$	2) Methylhydroxyd d. Brommorphin (4, 297, 212). — *III 669
$\mathbf{C}_{18}\mathbf{H}_{22}\mathbf{O}_{5}\mathbf{N}_{2}\mathbf{S}$	1) α -Q1- 2-Naphtylsulfonamidoacetylamido - α - Methylvalerian-
	säure. Sm. 124,3—125° (B. 36, 2601 C. 1903 [2] 619). 2) α-1-[2-Naphty'sulfonamidosectrl'amido
CHONT	Sm. 144—145° 30° ? ? 9003 · · ·
$egin{array}{l} { m C_{18}H_{28}ON_2J} \ { m C_{16}H_{28}O_8NBr_9} \end{array}$	 1) Hydrojod-δ-Cimeron. ?1i. 22, — 11I, 640. *1) Methylhydroxyd d. 3,6-Dibrom-4'-Dimethylamido-4-Oxy-2,5-
10 20 - 2 - 29	Dimethyldiphenylmethan. Sm. 208°. Salze siehe (A. 334, 290
•	C. 1904 [2] 984).

- 2) Methylhydroxyd d. 2,6-Dibrom-4'-Dimethylamido-4-Oxy-3,5- $\mathbf{C}_{18}\mathbf{H}_{28}\mathbf{O}_{2}\mathbf{NBr}_{2}$ Dimethyldiphenylmethan. Sm. 188—189° (A. 334, 322 C. 1904 [2] 987).
- $C_{18}H_{28}O_2NS$ Benzylamid d. β-Phenylpentan-P-Sulfonsäure.
 (B. 36, 3690 C. 1903 [2] 1426).
- 1) 4-Amido-4'-Sulfonmethylamido-2, 5, 2', 5'-Tetramethyldiphenyl- $C_{18}H_{24}O_3N_2S$ methan. Sm. 170° (D.R.P. 148760 C. 1904 [1] 555).
- *2) Brommethylat d. 1-Scopolamin. Sm. 216—217° (D.R.P. 145996 $C_{18}H_{24}O_4NBr$ C. 1903 [2] 1226).
 - 3) Brommethylat d. 1-Cocain (D.R.P. 48273). *III, 645.
- 1) Dipropylmonamid-Di[Phenylamid | d. Phosphorsäure. Sm. 2200 $\mathbf{C_{18}H_{26}ON_{8}P}$ (A. 326, 185 C. 1903 [1] 820).
- 1) Brommethylat d. Atropin. Sm. 222-2230 (D.R.P. 145996 C. 1903 $C_{18}H_{26}O_3NBr$ [2] 1225).
 - 2) Brommethylat d. Hyoscyamin. Sm. 210-2120 (D.R.P. 145996 C. 1903 [2] 1225).
- Diäthylmonamid-Di [4-Methylphenylamid] d. Thiophosphorsäure. Sm. 166-1676 (A. 326, 212 O. 1903 [1] 822).
 Dipropylmonamid-Di [Phenylamid] d. Thiophosphorsäure. Sm. 1456 (A. 326, 212 C. 1903 [1] 822). C18H28N8SP

 - 3) Isobutylmonamid-Di[4-Methylphenylamid] d. Thiophosphorsäure. Sm. 152° (A. 326, 205 C. 1903 [1] 821).

 *1) Chondroitinschwefelsäure (H. 37, 411 C. 1903 [1] 1146).

 1) Dipropylmonamid-Di[Phenylhydrazid] d. Phosphorsäure. Sm.
- $C_{18}H_{27}O_{17}NS$ C₁₈H₂₈ON₅P
- 164° (A. 326, 185 C. 1903 [1] 820).

 1) Jodbenzylat d. d-2-Propylhexahydro-1-Pyridylessigsäureme- $C_{18}H_{98}O_{9}NJ$ thylester. Sm. 103° (B. 37, 3637 C. 1904 [2] 1510).
- 2) isom. Jodbenzylat d. d-2-Propylhexahydro-1-Pyridylessigsäure-
- methylester. Sm. 146° (B. 37, 3637 C. 1904 [2] 1510).

 1) Dipropylmonamid-Di|Phenylhydrazid] d. Thiophosphorsäure. Sm. 196° (A. 326, 213 C. 1903 [1] 822). $\mathbf{C_{18}H_{29}N_{5}SP}$
- 1) Methylester d. Sparteinjodammoniumessigsäure. Sm. 230° (Ar. $C_{18}H_{81}O_{2}N_{2}J$ **242**, 517 *C.* **1904** [2] 1412).
- Methylamid d. s-Oxy-s-Phenyl-ββ-Dimethylnonan-s²-Sulfonsäure. Sm. 81—82° (B. 37, 3267 C. 1904 [2] 1031).
 Tri[Dipropylamid] d. Phosphorsäure. Fl. (A. 326, 200 C. 1903 C18H81O3NS
- C18 H42 ON 9 P
- 1) trim. Phosphinodipropylamin. Sd. 204° 10 (A. 326, 192 C. 1903) $\mathbf{C}_{18}\mathbf{H}_{42}\mathbf{O}_{6}\mathbf{N}_{8}\mathbf{P}_{3}$ [1] 820).

18 V --

- 1) 2, 4-Dichlorphenylmonamid d. Phosphorsäurediphenylester. C₁₈H₁₄O₃NCl₂P Sm. 132° (A. 326, 229 U. 1903 [1] 867).
 2, 4-Dibromphenylmonamid d. Phosphorsäurediphenylester.
- C18H14O8NBr2P
- Sm. 141° (A. 326, 236 C. 1903 [1] 867).

 C₁₈H₁₄O₄N₂Cl₂S₂ 1) Di[Phenylchloramid] d. Benzol-1,3-Disulfonsäure. Sm. 124° (Soc. 85, 1187 C. 1904 [2] 1115).

 C₁₈H₁₅O₅NBrP 1) 4-Bromphenylmonamid d. Phosphorsäurediphenylester. Sm.
- 112 (A. **326**, 232 C. **1903** [1] 867).
- C₁₈H₁₅O₄N₂BrS₂ 1) Di[Phenylamid] d. 4-Brombenzol-1, 2-Disulfonsäure. Sm. 182°
- (C. 1900 [2] 371). *II, 223. C₁₈H₁₆ON₃Br₂P 2) Di [Phenylamid] 2, 4 Dibromphenylamid d. Phosphorsäure. Sm. 228° (A. 326, 236 C. 1903 [1] 867).
- 1) Di[Phenylamid] d. Phosphorsäuremono 4 Chlorphenylester. $C_{18}H_{16}O_2N_2ClP$
- Sm. 167—168° (A. 326, 249 C. 1903 [1] 868).

 1) Jodmethylat d. 2,6,3'-Tribrom-4'-Dimethylamido-4-Oxy-3,5-Dimethyldiphenylmethan. Sm. 172—173° u. %ers. (A. 334, 325 C. 1904 2) [883]. C₁₈H₂₁ONBr₃J
- C₁₈H₉₂ONClBr₂ 1) Chlormethylat d. 3,6-Dibrom-4'-Dimethylamido-4-Oxy-2,5-Dimethyldiphenylmethan. Sm. 225-226° (A. 334, 292 C. 1904)
- C₁₈H₂₂ONBr₂J *1) Jodmethylat d. 3,6-Dibrom-4'-Dimethylamido-4-Oxy-2,5-Dimethyldiphenylmethan. Sm. 174—175° (190—191°) (A. 334, 292 C. 1904 [2] 984).

 $C_{19}H_{19}O_8$

2) Jodmethylat d. 2,6-Dibrom-4'-Dimethylamido-4-Oxy-3,5-Di- $C_{18}H_{22}ONBr_2J$ methyldiphenylmethan. Sm. 193-196° u. Zers. (A. 334, 321 C. 1904 [2] 987).

C₁₉-Gruppe.

Sm. 145° (146-148°) (B. 37, 74 C. 1904 [1] 518; *2) 9-Phenylfluoren. C19H14

B. 37, 2897 C. 1904 [2] 1310).

*1) Triphenylmethan (B. 36, 383 C. 1903 [1] 716; C. r. 137, 59 C. 1903 [2] 574; C. r. 138, 92 C. 1904 [1] 509; B. 37, 616 C. 1904 [1] 811).

4) 2-Benzylacenaphten. Sm. 112—113°; Sd. 340—345° (Bl. [3] 31, 375 C19H16

 $C_{19}H_{22}$

2 - Benzylacenaphten. Sm. 112—113°; Sd. 540—543° (Bt. [5] 51, 575 C. 1904 [1] 1271; Bt. [3] 31, 924 C. 1904 [2] 778).
2) αα-Diphenyl-α-Hepten. Fl. (B. 37, 1454 C. 1904 [1] 1353).
*1) αα-Diphenylheptan. Sd. 333—334° (B. 37, 1454 C. 1904 [1] 1353).
*1) Kohlenwasserstoff (aus Cholesterylchlorid). Sd. 235—250°₂₈ (M. 24, 661 C19H24 $C_{19}H_{28}$ C. 1903 [2] 1236).

2) Kohlenwasserstoff (aus Petroleum) (C. 1904 [1] 409). C19H38

_ 19 II _

C 75,5 — H 3,3 — O 21,2 — M. G. 302. C19H10O4 1) Methenylbisindandion. Sm. 303° (G. 32 [2] 330 C. 1903 [1] 586; G. 33 [1] 421 C. 1903 [2] 421).

2) Anhydrid d. 3-Benzoylnaphtalin-1,8-Dicarbonsäure. (B. [3] 31, 379 C. 1904 [1] 1271; Bl. [3] 31, 924 C. 1904 [2] 778; Bl. [3] 31, 929 C. 1904 [2] 779).

3) Anhydrid d. 4-Benzoylnaphtalin-1,8-Dicarbonsäure. Sm. 195° (A. 327, 98 C. 1903 [1] 1228).

C 71.7 - H 3.1 - C 25.2 - M. G. 318.C19H10O5

1) 1-Keto-2-[1,3-Diketo-2,3-Dihydro-2-Indenyl]inden-3-Carbonsäure. Sm. 242° (B. 35, 3959 C. 1903 [1] 32).

 2-Phenyl-3, 4-β-Naphtopyron (α-Phenyl-β-Naphtocumarin). Sm. 142°
 (B. 36, 1971 C. 1903 [2] 377). $C_{19}H_{12}O_{2}$

 $C_{19}H_{12}O_3$ 3) Anhydrid d. 2-Benzylnaphtalin-4, 5-Dicarbonsäure. Sm. 1750 (Bl. [3] 31, 378 C. 1904 [1] 1271; Bl. [3] 31, 924 C. 1904 [2] 778).

 $C_{19}H_{12}O_5$ 3) 2,3,7-Trioxy-9-Phenylfluoron. Sm. noch nicht bei 300°. (B. 37, 1173 C. 1904 [1] 1161).

C19H12O6

 $\mathbf{C}_{19}\mathbf{H}_{12}\mathbf{O}_{7}$

4) 2,8,7-Trioxy-9-[3,4-Dioxyphenyl]fluoron. Sm. oberh. 300°. H₂SO₄ + H₂O (B. 37, 2732 C. 1904 [2] 541). C 62,0 - H 3,2 - O 34,8 - M. G. 368.

1) Diacetat d. Rheïn. Sm. 236° (240°) (C. 1903 [1] 297; Ar. 240, 611 C. 1908 [1] 176; C. 1904 [1] 1077).

1) a,4,4',4"-Tetrachlortriphenylmethan. Sm. 146-148° (B. 37, 1635)

C,oH,oCl C. **1904** [1] 1649). $\mathbf{C_{19}H_{18}N}$

*3) 3-Phenyl-\beta-Naphtochinolin. Sm. 189 (C. r. 139, 298 C. 1904 [2] 714). *4) 5-Phenylakridin. Sm. 181-183°. Pikrat + 1/2 Calla (B. 37, 3200)

C. 1904 [2] 1472).

6) α-Di-o-Benzylenpyridin. Sm. 205°. Pikrat (G. 33 [1] 426 C. 1903 [2] 951).

1) Tri[4-Chlorphenyl]methan. Sm. 88° (C. 1903 [2] 1052). 5) 9-Oxy-9-Phenylfluoren. Sm. 106° (B. 37, 73 C. 1904 [1] 518). C₁₉H₁₈Cl₈ $C_{19}H_{14}O$

6) 4-Keto-1-Diphenylmethylen-1,4-Dihydrobenzol (Diphenylchinonmethan). Sm. 167—168° (B. 36, 2335 C. 1903 [2] 441; B. 36, 2792 C. 1903 [2] 882; B. 36, 3253 C. 1903 [2] 884).

7) 3-Benzoylacenaphten. Sm. 101° (99°). + AlCl_s, Pikrat (A. 327, 96 C. 1903 [1] 1228; Bl. [3] 31, 859 C. 1904 [2] 655).
8) 9-Phenylxanthen. Sm. 145° (B. 37, 2371 C. 1904 [2] 344).

- **447** C19H14O2 6) Diphenylmethylenäther d. 1,2-Dioxybenzol. Sm. 93° (B. 37, 3331 C. 1904 [2] 1050). 7) 3-Oxy-4-Keto-1-Diphenylmethylen-1,4-Dihydrobenzol (chin. 2-Oxyfuchson). Sm. 123° (B. 37, 3330 C. 1904 [2] 1049).
 8) 9-Oxy-9-Phenylxanthen. Sm. 158° (B. 37, 2370 C. 1904 [2] 344; B. 37, 2933 C. 1904 [2] 1142). $C_{19}H_{14}O_{8}$ *4) Phenylester d. Diphenyläther-2-Carbonsäure. Sm. 109° (C. r. 136, 1075 C. 1903 [1] 1362; C. r. 139, 141 C. 1904 [2] 593). C19H14O4 13) Dilakton d. $\alpha \varepsilon$ -Dioxy- $\alpha \varepsilon$ -Diphenyl- β -Penten- $\gamma \delta$ -Dicarbonsäure (Diphenylheptendilakton). Sm. 161° (A. 331, 176 C. 1904 [1] 1212). 14) Isodiphenylheptendilakton. Sm. 234°. Ca, Ba, Ag₂ (A. 331, 181 C. 1904 [1] 1212). 15) Methylester d. 2-[1-Oxy-2-Naphtoyl]benzol-1-Carbonsäure. Sm. 108—109° (B. 36, 560 C. 1903 [1] 721).
 16) 1-Methylester d. 2-Phenylnaphtalin-1, 2²-Dicarbonsäure. Sm. 171,5° (A. 335, 117 C. 1904 [2] 1132). 17) 22-Methylester d. 2-Phenylnaphtalin-1, 22-Dicarbonsäure. Sm. 1240. Ag (A. 334, 117 O. 1904 [2] 1132). *2) Vulpinsäure (C. 1903 [2] 121). C19H14O5 8) 2,3,6,7-Tetraoxy-9-Phenylxanthen (B. 37, 1174 C. 1904 [1] 1161). C19H14O6 *13) Pinastrinsäure (*C.* 1903 [2] 121). 24) Trimethyläther d. Trioxybrasanchinon. Sm. 260° (B. 36, 2200 C. 1903 [2] 381). 25) Lakton d. α -Oxy- γ -Keto- β -Phenyl- α -[3,4-Dioxyphenyl] butan-3,4-Methylenäther- β -Ketocarbonsäure. Sm. 135° (A. 333, 258 C. 1904) [2] 1391). 26) isom. Lakton d. α -Oxy- γ -Keto- β -Phenyl- α -[3,4-Dioxyphenyl] butan-3,4-Methylenäther- β -Ketocarbonsäure. Sm. 130° (4. 333, 258 C. 1904 [2] 1391). 27) Diacetat d. 3,6-Dioxy-2-Phenyl-1,4-Benzpyron. Sm. 195-196° (B. 37, 778 C. 1904 [1] 1156). 28) Diacetat d. 3,7-Dioxy-2-Phenyl-1,4-Benzpyron. Sm. 157° (B. 37, 1182 C. 1904 [1] 1275). 29) Diacetat d. 7,8-Dioxy-2-Phenyl-1,4-Benzpyron. Sm. 1930 (B. 36, 4242 C. 1904 [1] 382). 5) Diacetat d. isom. 1,2,3-Trioxy-9,10-Anthrachinonmonomethyläther. Sm. 184° (M. 23, 1017 C. 1903 [1] 291).
 *1) Diacetat d. Rheïn. Sm. 247-248° (Ar. 241, 605 C. 1904 [1] 169).
 3) Diacetat d. Pigments C₁₅H₁₀O₆. Sm. 125° (B. 36, 3960 C. 1904). C19H14O7 C19H14O8 [1] 39). 2) α, 4 - Dichlortriphenylmethan. Sm. 87° (B. 37, 1633 C. 1904 [1] $C_{19}H_{14}Cl_{2}$ 1649). 2) 4,4'-Dibromtriphenylmethan. Sm. 100°; Sd. 260°₁₅ (Am. 30, 463 $\mathbf{C}_{19}\mathbf{H}_{14}\mathbf{Br}_{2}$ C. 1904 [1] 377). C19H15N 6) Inn. Anhydrid d. α-Oxy-4-Amidotriphenylmethan. Sm. bei 300° u. Zers. (B. 36, 2794 C. 1903 [2] 883). 7) Verbindung (aus 2-Methylchinolin u. Zimmtaldehyd). Sm. 117° (B. 36, 4330 C. 1904 [1] 449). 9) 4 - Benzylidenamidoazobenzol. Sm. 127° (A. 329, 221 C. 1903 [2] $C_{19}H_{15}N_3$ 1428). 10) Nitril d. α -[2-Methylphenyl]imido- α -[1-Naphtyl]amidoessigsäure. Sm. 97 ° (D.R.P. 153418 C. 1904 [2] 679). 11) Nitril d. α -[2-Methylphenyl]imido- α -[2-Naphtyl]amidoessigsäure. Sm. 106° (D.R.P. 153418 C. 1904 [2] 679). 12) Nitril d. α-[4-Methylphenyl]imido-α-[1-Naphtyl]amidoessigsäure. Sm. 151° (D.R.P. 153418 C. 1904 [2] 679). 13) Nitril d. α -[4-Methylphenyl]imido- α -[2-Naphtyl]amidoessigsäure. Sm. 129° (D.R.P. 153418 C. 1904 [2] 679).
- *1) a-Chlortriphenylmethan. + Pyridin, + AlCl₃ (Am. 29, 129 C. 1903 [1] 714; B. 36, 384 C. 1903 [1] 716; Am. 29, 609 C. 1903 [2] 204; R. 22, 309 C. 1903 [2] 203; B. 36, 3925 C. 1904 [1] 95).
 *1) a-Bromtriphenylmethan. + Br₅, + J₅ (B. 37, 3543 C. 1904 [2] $C_{19}H_{15}Cl$ $C_{19}H_{15}Br$
- 1738).

(B. 37, 3671 C. 1904 [2] 1569).

C. 1904 [1] 1603).

*1) \alpha-Oxytriphenylmethan. Sm. 162° (160,5°). + Chinolin, + Phenylhydrazin (B. 35, 4007 C. 1903 [1] 30; B. 36, 406 C. 1903 [1] 585; B. 36, 1010 C. 1903 [1] 1077; B. 36, 1589 C. 1903 [2] 111; B. 36, 2337 C. 1903 [2] 441; B. 36, 3006 C. 1903 [2] 950; Bl. [3] 29, 1131 C. 1904 [1] 284; B. 37, 2107 C. 1904 [2] 107; B. 37, 2755 C. 1904

*3) ε-Keto-αη-Diphenyl-αγζ-Heptatriën. (HCl, SbCl₅), (HCl, SnCl₄)

*4) 2-Keto-1,3-Dibenzyliden-K-Pentamethylen. 2HBr (B. 37, 1653

7) s-Keto - $\alpha\eta$ - Diphenyl - $\alpha\gamma\zeta$ - Heptatriën (Benzalcinnamylidenaceton). Sm. 108° (C. 1904 [2] 507).

C19H16O2

*5) α ,4-Dioxytriphenylmethan + $^{1}/_{2}$ H₂O. Sm. 143—144° (165° wasserfrei). + 1 C₆H₆ (B. 36, 2337 C. 1903 [2] 441; B. 36, 2791 C. 1903 [2] 882; B. 36, 3247 C. 1903 [2] 884; B. 36, 3571 C. 1903 [2] 1375). 6) Acetat d. 2-Oxy-1-Benzylnaphtalin. Sm. 40° (G. 33 [2] 490 C. 1904 [1] 656). 7) Acetat d. 4-Oxy-1-Benzylnaphtalin. Sm. 87-880 (G. 33 [2] 473 C. 1904 [1] 654). 8) Verbindung (aus d. Verb. C₁₉H₁₈O₈). Sm. 144,5° (Soc. 83, 304 C. 1903 9) Verbindung (aus 2-Keto-1,4,5-Trioxy-1,3-Dimethyl-4,5-Diphenyl-R-Pentamethylen). Sm. 175° (Soc. 83, 303 C. 1903 [1] 878). *2) α,4,4'-Trioxytriphenylmethan (Benzaurin) (B. 36, 2791 C. 1903 [2] $C_{19}H_{16}O_{8}$ 882) 15) α, 3, 4-Trioxytriphenylmethan (B. 37, 3329 C. 1904 [2] 1049). 16) 2-Keto-1, 3-Di [2-Oxybenzyliden]-R-Pentamethylen. Sm. 1906 u. Zers.
 (B. 36, 1502 C. 1903 [1] 1351). 17) 2-Keto-1,3-Di[4-Oxybenzyliden]-R-Pentamethylen. Sm. oberh. 300° (B. 36, 1503 C. 1903 [1] 1352). 18) Methylenäther d. ϵ -Keto- α -[3,4-Dioxyphenyl]- ϵ -[4-Methylphenyl]- $\alpha \gamma$ -Pentadiën. Sm. 122° (B. 37, 1700 C. 1904 [1] 1497). 19) Acetat d. Verb. $C_{17}H_{14}O_2$. Sm. 145° (B. 36, 1494 C. 1903 [1] 1350). 13) Trimethyläther d. Trioxy- $\beta\beta$ -Phenylennaphtylenoxyd (Tr. d. Trioxybrasan). Sm. 244—246° (B. 36, 2199 C. 1903 [2] 381). C19H16O4 14) Anhydrid d. $\gamma\delta$ -Diphenyl- β -Methylbutan- $\gamma\delta$ -Oxyd- $\beta\delta$ -Dicarbonsäure. Sm. 158° (Soc. 83, 307 C. 1903 [1] 879). 15) Lakton d. β -Oxy- δ -Keto- $\alpha\gamma$ -Diphenylpentan- γ -Carbonsäure. Sm. 91° (A. 333, 231 C. 1904 [2] 1389). 16) Dilakton d. αε-Dioxy-αε-Diphenylpentan-βγ-Dicarbonsäure (Diphenylheptodilakton). Sm. 149° (A. 331, 187 U. 1904 [1] 1212). C19H18O5 13) Lakton d. α -Oxy- γ -Keto- β -Phenyl- α -[4-Oxyphenyl] butan-4-Methyläther- β -Ketocarbonsäure. Sm. 116 $^{\circ}$ (A. 333, 269 C. 1904 [2] 1392). 14) Monolakton d. αε-Dioxy-αε-Diphenyl-β-Penten-γδ-Dicarbonsäure. Ba + H₂O, Ag (4. 331, 178 C. 1904 [1] 1212). 15) Acetat d. 1,7 - Dioxy - 2,6 - Dimethyl - 9,10 - Anthrachinonmonomethyläther. Sm. 195—196° (Soc. 83, 1832 C. 1904 [1] 100). 16) 4,6-Diacetat d. 3,4,6-Trioxyphonarithon-3-Methyläther. Sm. 162 bis 163° (B. 36, 3081 C. 1903 [2] 117 [2] 37, 3501 C. 1904 [2] 1320). 17) 3-Acetat d. 3,6-Dioxy-2-Phenyl-1,4-Benzpyron-6-Aethyläther. Sm. 133-134° (B. 37, 777 C. 1904 [1] 1156). 18) isom. Diacetat d. Chrysarobin. Sm. 1930 (Soc. 81, 1579 C. 1903 [1] 34, 167). *4) Diphenacylmalonsäure. + CHCl $_3$ (C. 1904 [1] 1259). $C_{19}H_{16}O_{6}$ 11) 4-Acetoxyl-3,6-Dimethoxylphenanthren-9-Carbonsaure. Sm. 201 bis 203° (B. 35, 4409 C. 1903 [1] 343). 12) $\alpha \gamma$ - Lakton d. α - Oxy - γ - Acetoxyl - β - Phenyl - α - [3, 4-Dioxyphenyl] propan-3,4-Methylenäther-γ-Carbonsäure. Sm. 116-117° (A. 333, 261 C. 1904 [2] 1391).
13) 3-Acetat d. 3,6-Dioxy-2-[2-Oxyphenyl]-1,4-Benzpyron-2²,6-Dimethyläther. Sm. 121-122° (B. 37, 2349 C. 1904 [2] 230).

19 II. 14) 3-Acetat d. 3,6-Dioxy-2-[3-Oxyphenyl]-1,4-Benzpyron-2³,6-Dimethyläther. Sm. 134° (B. 37, 960 C. 1904 [1] 1160).
15) 3-Acetat d. 3,6-Dioxy-2-[4-Oxyphenyl]1,4-Benzpyron-2⁴,6-Dimethyläther. Sm. 131-132° (B. 37, 783 C. 1904 [1] 1159). C10 H10 Oa 16) 3-Acetat d. 3,7-Dioxy-2-[2-Oxyphenyl]-1,4-Benzpyron-2²,7-Dimethyläther. Sm. 138-139° (B. 37, 4158 C. 1904 [2] 1658). methylather. Sm. 135-135 (B. 37, 4155 C. 1304 [2] 1050).

17) 3-Acetat d. 3,7-Dioxy-2-[3-Oxyphenyl]-1,4-Benzpyron-2³,7-Dimethyläther. Sm. 165 (B. 37, 4160 C. 1904 [2] 1658).

18) 3-Acetat d. 3,7-Dioxy-2-[4-Oxyphenyl]-1,4-Benzpyron-2⁴,7-Dimethyläther. Sm. 193-194 (B. 37, 4162 C. 1904 [2] 1659). 19) 3-Acetat d. 3,5,7-Trioxy-2-Phenyl-1,4-Benzpyron-5,7-Dimethyläther. Sm. 192—193° (B. 37, 2804 C. 1904 [2] 712). 20) 3-Acetat d. 3,7,8-Trioxy-2-Phenyl-1,4-Benzpyron-7,8-Dimethyläther. Sm. 185° (B. 37, 2808 C. 1904 [2] 713) 21) Triacetat d. Verb. $C_{19}H_{10}O_{8}$. Sm. oberh. 300° (B 37, 1179 C. 1904) [1] 1162). 22) Triacetat d. Verb. C₁₈H₁₀O₈. Sm. noch nicht bei 300° (B. 37, 2737 C. 1904 [2] 542).
 isom. Triacetat d. Verb. C₁₃H₁₀O₈. Sm. 270—275° (B. 37, 2737) C. 1904 [2] 542). *2) Diäthylester d. 2,4,9-Triketo-2,3,4,9-Tetrahydro- $\beta\beta$ -Naphtinden-C19 H16 O7 1,3-Dicarbonsäure. Sm. 150°. Ba (E. Hover, Dissort, Berlin 1901).

3) Carbousninsäure. Sm. 195—196° (J. pr. [2] 68, 4 C. 1903 [2] 510).

*3) Tetraacetat d. Purpurogallin. Sm. 184—186° (Soc. 85, 246 C. 1904). C19H16O8 C19H16O9 1] 798, 1005). *2) Diphenylbenzenylamidin. Sm. 145° (Am. 31, 583 C. 1904 [2] 109). $C_{19}H_{16}N_{2}$ 11) Anhydrid d. α-Oxy-4,4'-Diamidotriphenylmethan. Sm. oberh. 2500 (B. 37, 2865 C. 1904 [2] 776). 12) 4-Imido-I-[4-Amidodiphenyl]methylen-1,4-Dihydrobenzol(p-Amidofuchsonimin). IICl, Pikrat (B. 37, 2863 C. 1904 [2] 776).
13) 4-[4-Methylphenyl]azobenzol. Sm. 137° (C. 1904 [1] 1491). *2) Formazylazobenzol (B. 36, 55 C. 1903 [1] 450). $C_{19}H_{16}N_{6}$ 12) α-Phenylamido-αα-Diphenylmethan. Fl. HCl (B. 37, 2693 C. 1904 C19 H17 N [2] 519). 13) 2-Amidotriphenylmethan. S (B. 37, 3198 C. 1904 [2] 1472). Sm. 128—130°. $+ C_6H_6$ (Sm. 94—95°) 14) 2,6-Di[4-Methylphenyl]pyridin. Sm. 162°. (HCl, AuCl₃), Pikrat (B. 36, 852 C. 1903 [1] 976). *2) α -Phenylimido- α - $[\alpha$ -Phenylhydrazido]- α -Phenylmethan. Sm. 119° $C_{19}H_{17}N_8$ (Am. 31, 582 C. 1904 [2] 109). *3) α -Phenylimido - α -[β -Phenylhydrazido] - α -Phenylmethan. Sm. 174 bis 175° (Am. 31, 583 C. 1904 [2] 109). 18) Anhydrid d. a-Oxytri[4-Amidophenyl]methan (B. 36, 4025 C. 1904 [1] 167) 8) 5-Amido - 1, 2-Di[4-Amidophenyl] benzimidazol. (B. 37, 1071 C. 1904 [1] 1273). Sm. 223 — 224° C19H17N5 3) ε-Keto-αε-Di[4-Methylphenyl]-αγ-Pentadiën. Sm. 123-124° (B. 36, C,9H,8O 852 C. 1903 [1] 976). 4) 2-Keto-1, 3-Dimethyl-4, 5-Diphenyl-2, 3-Dihydro-R-Penten. Sm. C19H18O2

säure. Sm. 124° (B. 36, 921 U. 1903 [1] 1031; A. 333, 245 C. 1904 [2] 1391).

*10) Dianisalaceton. Sm. 126,5–127°. + HCl, + 2 HCl, + HBr, + 1(2)H₂SO₄, + H₈PO₄, + Chloresigsäure (C. 1903 [2] 284; B. 36, 1481 C. 1903 [1] 1349; B. 36, 131 C. 1903 [1] 457). 12) Trimethyläther d. P-Trioxyäthenylphenanthren. Sm. 122,5°. Pikrat

(B. 37, 2789 C. 1904 [2] 716). 13) γ -Benzoylmethyl- α -Phenyl- α -Buten- δ -Carbonsäure. Sm. 125° (C. 1903)

[2] 944).

14) Lakton d. α -Oxy- γ -Keto- β -Phenyl- α -[4-Isopropylphenyl] propan- γ -Carbonsäure. Sm. 186° (B. 36, 920 C. 1903 [1] 1031; A. 333, 238 C. 1904 [2] 1390).

C19H18O8

15) isom. Lakton d. α -Oxy- γ -Keto- β -Phenyl- α -[4-Isopropylphenyl]-

C19H18O8

15) isom. Lakton d. α-Oxy-γ-keto-β-Phenyi-α-[4-isopropyiphenyi]-propan-γ-Carbonsäure. Sm. 198° (B. 36, 920 C. 1903 [1] 1031; A. 333, 251 C. 1904 [2] 1391).
16) Verbindung (aus 2-Keto-1,4,5-Trioxy-1,3-Dimethyl-4,5-Diphenyl-R-Pentamethylen). Sm. 89—90° (Soc. 83, 304 C. 1903 [1] 879).
*13) Aethylester d. αδ-Diketo-αδ-Diphenylbutan-β-Carbonsäure. Sm. C19H18O4 69-72° (A. 331, 316 C. 1904 [2] 46). 26) Diäthyläther d. 5,6-Dioxy-2-Keto-1-Benzyliden-1,2-Dihydrobenzfuran. Sm. 115° (B. 29, 1889). — *III, 532. 27) ε -Keto- $\gamma\delta$ -Diphenylhexan- $\gamma\delta$ -Oxyd- β -Carbonsäure. Na, Ag (Soc. 83. 295 C. 1903 [1] 878). 28) Lakton d. β -Oxy- δ -Acetoxyl- $\alpha \gamma$ -Diphenylbutan- δ -Carbonsäure. Sm. 142° (A. 333, 279 C. 1904 [2] 1393). *10) α-Keto-αγ-Diphenylpentan-δε-Dicarbonsäure. Na₂ (A. 326, 362 C. 1903 [1] 1124). $C_{19}H_{18}O_5$ 16) Methyläther d. Ononetin. Sm. 95—110° (M. 24, 149 C. 1903 [1] 1033). 17) $\gamma\delta$ -Diphenyl- β -Methylbutan- $\gamma\delta$ -Oxyd- $\beta\delta$ -Dicarbonsäure. Sm. 171° (184°) . Ag₂ (Soc. 83, 306 C. 1903 [1] 879). 18) αη-Lakton d. α-Oxy-η-Acetoxyl-β-Phenyl-α-[4-Oxyphenyl|propan-4-Methyläther-γ-Carbonsäure. Sm. 117° (A. 333, 271 C. 1904 [2] 1392). 19) Monolakton d. αε-Dioxy-αε-Diphenylpentan-βη-Dicarbonsaure. Sm. noch nicht bei 160°. Ba, Ag (A. 331, 189 C. 1904 [1] 1212).
20) η²-Acetat d. η-Keto-η-[2, 4-Dioxyphenyl]-α-[3-Oxyphenyl] propena³, η²-Dimethyläther. Sm. 70—71° (B. 37, 4159 C. 1904 [2] 1658). 21) 2-Acetat d. γ-Keto-γ-[2,3,4-Trioxyphenyl]-α-Phenylpropen-3,4-Dimethyläther. Sm. 110° (B. 36, 4239 C. 1904 [1] 381). 22) Diacetat d. 1, 3-Dioxy-2, 4-Dimethylxanthen. Sm. 117-1180 (M. 25, 327 C. 1904 [1] 1495). 23) Verbindung (aus d. Verb. $C_{27}H_{80}O_{12}$). Sm. 180—181° (M. 24, 211 C. 1903 [2] 38). *11) a-Trimethyläther d. Brasilon (B. 36, 1221 C. 1903 [1] 1183). *14) \$\beta\$-Trimethyläther d. Brasilon (B. 36, 1220 C. 1903 [1] 1183). 17) 2\sqrt{3}, 2\sqrt{4}\$-Dimethyläther-7-Aethyläther d. 3,7-Dioxy-2-[3,4-Dioxy-phenyl]-1,4-Benzpyron. Sm. 193—194\sqrt{6} (B. 37, 789 C. 1904 [1] 1157). C19 H18 O6 18) αs -Dioxy- αs -Diphenyl- β -Penten- $\gamma \delta$ -Dicarbonsäure. Ca, Ba, Ag, (A. 331, 179 C. 1904 [1] 1212). 19) β -Acetat- $\alpha\gamma$ -Dibenzoat d. $\alpha\beta\gamma$ -Trioxypropan. Sd. 248—251 $^{0}_{22}$ (C. 1903) 1] 134). Verbindung (aus Brasilon-β-Trimethyläther). Sm. 174—175° (B. 37, 631 C. 1904 [1] 955; M. 25, 880 C. 1904 [2] 1312). 6) 23,24,5,7-Tetramethyläther d. 3,5,7-Trioxy-2-[3,4-Dioxyphenyl]-1,4-Benzpyron. Sm. 197—198° (B. 37, 1404 C. 1904 [1] 1356).

3) Pentamethyläther d. 1,2,3,5,6,7-Hexaoxy-9,10-Anthrachinon. Sm. 192—194° (C. 1904 [2] 709). C19H18O7 C19H18O8 *3) Leprarin (Leprariasaure). Sm. 155° (*J. pr.* [2] 68, 69 *C.* 1903 [2] 514). *2) 4,4'-Diamidotriphenylmethan (*B.* 37, 2860 *C.* 1904 [2] 776). C19 H18 O9 $C_{19}H_{18}N_{2}$ 10) 4-[4-Methylphenyl]-s-Diphenylhydrazin. Sm. 102° (C. 1904 [1] 1491). 4) 4-[4-Isopropylbenzyl]isochinolin. Sm. 72,5—73,5°. HCl, (HCl, HgCl₂), $C_{19}H_{19}N$ (2 HCl, PtCl₄), Pikrat (A. 326, 301 C. 1903 [1] 929).
9) γ-Oxy-β-Phenyl-α-[4-Isopropylphenyl]propen-γ-Carbonsäure. Sm. 136° (B. 36, 921 C. 1903 [1] 1031; A. 333, 246 C. 1904 [2] 1391).
10) β-[4-Isopropylbenzoyl]-β-Phenylpropionsäure. Sm. 111° (B. 36, 921 C. 1903 [1] 1031; A. 333, 246 C. 1904 [2] 1391).
11) αν-Isopropylbenzoyl-β-Phenylpropionsäure. Sm. 111° (B. 36, 921 C. 1903 [1] 1031; A. 333, 246 C. 1904 [2] 1391). C19H20O8 11) αγ-Lakton d. αγ-Dioxy-β-Phenyl-γ-[4-Isopropylphenyl] buttersäure. Sm. 169° (B. 36, 920 C. 1903 [1] 1031; A. 383, 242 C. 1904 [2] 1390).
 12) Aethylester d. Säure C₁₇H₁₆O₈. Sm. 48-50° (B. 37, 2247 C. 1904).

[2] 328). C19H20O4 21) 2-Ketó-1,4,5-Trioxy-1,3-Dimethyl-4,5-Diphenyl-R-Pentamethylen. Sm. 89° (Soc. 83, 295 C. 1903 [1] 878). 22) Dibenzylester d. Propan-αγ-Dicarbonsäure. Sd. 248°₁₄ (B. 35, 4084

C. 1903 [1] 75).

23) Diacetat d. $\beta\beta$ -Di[4-Oxyphenyl]propan. Sm. 78° (C. 1904 [2] 1737). 24) Verbindung (aus Trimethylolbisacetophenon). Sm. 108° (B. 36, 1354 C. 1903 [1] 1299).

11) 2³, 2⁴-Dimethyläther-7-Aethyläther d. 7-Oxy-2-[3,4-Dioxyphenyl]-2,3-Dihydro-1,4-Benzpyron. Sm. 110° (B. 37, 788 C. 1904 [1] 1157).
12) Anhydrolariciresinol. Sm. 207° (M. 23, 1026 C. 1903 [1] 288). C19H2005 9) α², α⁴, γ³, γ⁴. Tetramethyläther d. γ-Keto-γ-[2,4,6-Trioxyphenyl]-α-[2,4-Dioxyphenyl]propen. Sm. 152° (B. 37, 794 C. 1904 [1] 1159).
 10) α³, α⁴, γ², γ⁴-Tetramethyläther d. γ-Keto-γ-[2,4,6-Trioxyphenyl]-α-[3,4-Dioxyphenyl]propen. Sm. 157° (B. 37, 793 C. 1904 [1] 1158).
 11) Etramethyläther d. 5.7 Dioxyp. 2.18 (B. 37, 793 C. 1904 [1] 1158). $C_{19}H_{20}O_6$ 11) Tetramethyläther d. 5,7-Dioxy-2-[3,4-Dioxyphenyl]-2,3-Dihydro-1,4-Benzpyron. Sm. 159—160° (B. 37, 1403 C. 1904 [1] 1355). 12) α s-Dioxy- α s-Diphenylpentan- $\beta\gamma$ -Dicarbonsäure. Ca, Ag₂ (A. 331, 189 C. 1904 [1] 1213).

13) Verbindung (aus d. Verb. $C_{10}H_{18}O_{6}$) (M. 25, 881 C. 1904 [2] 1312).

*3) Barbatinsäure (Rhizonsäure). Na + 2 H₂O (J. pr. [2] 68, 12 C. 1903 [2] 510; A. 327, 340 C. 1903 [2] 509). C,0H,0O, 3) Anhydrodiacetylpikrotin. Sm. oberh. 300° (B. 31, 2973). — *III, 472. 4) Benzoat d. Arbutin. Sm. 184,5° (D.R.P. 151036 C. 1904 [1] 1308). $\mathbf{C}_{19}\mathbf{H}_{20}\mathbf{O}_{8}$ 6) $s-[2-Methylphenyl]imido-\alpha-[2-Methylphenyl]amido-<math>\alpha\gamma$ -Pentadiën. Fl. HCl, HBr (J. pr. [2] 69, 136 C. 1904 [1] 816; J. pr. [2] 70, 42 C. 1904 [2] 1235; A. 833, 324 C. 1904 [2] 1149). C19H20N2 7) $s-[3-Methylphenyl]imido-\alpha-[3-Methylphenyl]ámido-<math>\alpha\gamma$ -Pentadiën. HBr (J. pr. [2] 70, 45 C. 1904 [2] 1235). 8) $s-[4-Methylphenyl]imido-\alpha-[4-Methylphenyl|amido-\alpha\gamma-Pentadiën.$ Sm. 121°. HCl, HBr (A. 333, 323 C. 1904 [2] 1149; J. pr. [2] 70, 46 C. 1904 [2] 1236). 3) 2,6-Di[Phenylamido]-4-Methyl-5-Aethyl-1,3-Diazin. HCl (B. 36, C19H20N4 1922 C. 1903 [2] 209). 1) β -Brom- $\alpha \alpha$ -Diphenyl- α -Hepten. Sm. 74° (B. 37, 1454 C. 1904 [1] 1353). $\mathbf{C}_{19}\mathbf{H}_{21}\mathbf{Br}$ 5) Isoamylester d. α-Oxydiphenylessigsäure. Sd. 230—232° (B. 37, C19H22O8 2767 C. 1904 [2] 708). 2) $\alpha \gamma$ -Dioxy- β -Phenyl- γ -[4-Isopropylphenyl] buttersäure. Ag (A. 333, C19H22O4 243 C. 1904 [2] 1390). 3) Methylester d. O-Benzoylcamphocarbonsäure. Sm. 58,5—59,5° (B. 36, 4273 C. 1904 [1] 457). 6) Tri[Methylol]bisacetophenon. Sm. 156° (B. 36, 1352 C. 1903 [1] 1299). C19H22O5 *2) Lariciresinol (M. 23, 1022 C. 1903 [1] 287).
*3) isom. Lariciresinol. Sm. 104° (M. 23, 1023 C. 1903 [1] 288).
6) Tetramethyläther d. Acakatechin. Sm. 152—153° (C. 1904 [2] 439). C19H22O6 $C_{19}H_{22}O_{10}$ 3) Pentaacetat d. 2,4,6-Trioxy-5-Dioxymethyl-1,3-Dimethylbenzol. Sm. 152—153° (M. 24, 879 C. 1904 [1] 369). C 53,5 — H 5,1 — O 41,3 — M. G. 426. 1) Saponarin (oder C₂₁H₂₄O₁₂). Sm. 231° u. Zers. (C. 1904 [2] 1503). C 85,1 — H 8,9 — O 6,0 — M. G. 268. 1) α-Oxy-αα-Diphenylheptan. Sd. 200—201°₁₁ (B. 37, 1454 C. 1904 [1] C19H22O11 $C_{19}H_{24}O$ 5) αα-Di[4-Oxyphenyl]heptan. Sm. 103° (C. 1904 [1] 1650).
6) Bornylester d. Zimmtsäure. Sm. 33° (C. r. 136, 238 C. 1903 [1] 584).
*3) β₁ - Benzylidenbisacetessigsäureäthylester. Sm. 154° (B. 36, 2186 C. 1903 [2] 569; Soc. 83, 1297 C. 1904 [1] 95). C19H24O2 C10H24O8 *5) isom. Benzylidenbisacetessigsäureäthylester (Soc. 83, 1298 C. 1904 [1] 95). $C_{19}H_{25}N_8$ *1) 4-[4-Diäthylamidobenzyliden]amido-1-Dimethylamidobenzol. Sm. 136° (B. 37, 860 C. 1904 [1] 1200). C 84,4 — H 9,6 — O 5,9 — M. G. 270. 1) Kristallalban. Sm. 227,5—228° (Ar. 241, 485 C. 1903 [2] 1178). C19H26O C19H26O8 *4) I-Menthylester d. β -Oxy- α -Phenylakrylsäure. Na, Cu (Soc. 81, 1496 C. 1903 [1] 153). *5) 1-Menthylester d. Formylphenylessigsäure (Soc. 81, 1494 C. 1903 [1] 153). C 68,3 — H 7,8 — O 23,9 — M. G. 334. $C_{19}H_{28}O_{5}$ 1) Diäthylester d. Dehydrodioxyparasantonsäure (C. 1903 [2] 1447). $C_{19}H_{28}O_{2}$ *2) Abietinsäure (Ar. 241, 523 C. 1903 [2] 1179; Soc. 85, 1238 C. 1904 [2] 107, 1308).

8) α -Abietinsäure. Sm. 143—155°. Ag (Ar. 241, 507 C. 1903 [2] 1179). 9) β -Abietinsäure. Sm. 145—158°. Ag (Ar. 241, 508 C. 1903 [2] 1179).

10) γ-Abietinsäure. Sm. 153-154°. Ag (Ar. 241, 512 C. 1903 [2] 1179). $C_{19}H_{28}O_{2}$ 4) Aethylester d. 1-Aethyläthersantonigen Säure. Sni. 31-320 (G. 25, $C_{19}H_{28}O_3$ [1] 517). — *II, 978. 5) α-Palmitat d. αβγ-Trioxypropan. Sm. 65° (C. 1903 [1] 133).
 2) Verbindung (aus Formaldehyd u. Acetylaceton). Sm. 167° (B. 36, 2178 C. 1903 [2] 372). C₁₉H₂₈O₄ C19H28O8 C 56,7 - H 7,4 - O 35,8 - M. G. 402.C, H30O9 1) Tetraäthylester d. δ-Ketoheptan-αγεη-Tetracarbonsäure. Sd. 220 bis 230°_{12} (B. 37, 3816 C. 1904 [2] 1606).
6) Pentaäthylester d. Butan- $\alpha \alpha \beta \beta \delta$ -Pentacarbonsäure. Sd. 215—218 "17 (C. 1903 [1] 628; Soc. 85, 611 C. 1904 [1] 1254, 1553).
C 82,6 — H 11,6 — O 5,8 — M. G. 276. $C_{19}H_{30}O_{10}$ $C_{19}H_{32}O$ C 82,6 — H 11,6 — O 5,8 — M. G. 270.
Spongosterin. Sm. 119-120° (H. 41, 112 C. 1904 [1] 996).
Lichesterinsäure. Sm. 124,5° (Ar. 241, 1 C. 1903 [1] 697).
Protolichesterinsäure. Sm. 104-105° (A. 324, 39 C. 1902 [2] 9O4;
A. 327, 353 C. 1903 [2] 510).
Methylester d. Proto-α-Lichesterinsäure. Sm. 33° (J. pr. [2] 68, 31 C19H82O4

 $C_{19}H_{32}O_5$ C. 1903 [2] 511). 2) Methylester d. Chaulmoograsäure. Sm. 22°; Sd. 227°, (Soc. 85, 853 $C_{19}H_{84}O_{2}$

C. 1904 [2] 348, 604).
5) Methylester d. Dibydrachaulmoorrasäure. Sm. 26-27°; Sd. 222 $C_{19}H_{36}O_{2}$ bis 223°₂₀ (Soc. 85. 1001 C 73,1 — H 11,5 $C_{19}H_{36}O_8$

 $C_{19}H_{88}O_{2}$ $\mathbf{C}_{19}\mathbf{H}_{89}\mathbf{O}_{4}$

 $\mathbf{C}_{10}\mathbf{H}_{88}\mathbf{N}_{4}$

— 19 III —

C₁₀H₄O₇Br₁₂ 1) Verbindung (aus 3,4,5,6-Tetrabrom-1,2-Benzochinon). Sm. 192—11933" (Am. 31, 96 C. 1904 [1] 802).
C₁₀H₆O₅Br₆ 1) Monobenzoat d. Hexabrom-o-Oxybrenzkatechinäther. Sm. 316 bis 318° (Am. 30, 524 C. 1904 [1] 366).

1) 3-Brom-2-[2-Brom-1,3-Diketo-2,3-Dihydro-2-Indenyl]-1,4-Naphto- $C_{19}H_8O_4Br_9$ chinon. Sm. 225° (B. 35, 3964 U. 1903 [1] 33). $\mathbf{C}_{10}\mathbf{H}_{8}\mathbf{O}_{5}\mathbf{Br}_{8}$

α-Verbindung (aus Benzylalkohol u. 3,4,5,6-Tetrabrom-1,2-Benzochino 11).
 Zers. bei 165-170° (Am. 31, 101 C. 1904 [1] 802).
 β-Verbindung (aus Benzylalkohol u. 3,4,5,6-Tetrabrom-1,2-Benzochino 11).
 Sm. 216-217° (Am. 31, 101 C. 1904 [1] 802).
 C 80,6 - H 3,2 - O 11,3 - N 4,9 - M. G. 283.
 D-Diphen-Isoporidal Circles. Sm. 256° (A. 32 [2] 331 C. 1903 [1]

 $\mathbf{C}_{19}\mathbf{H}_{9}\mathbf{O}_{2}\mathbf{N}$

C 76,2 — H 3,0 — O 16,1 — N 4,7 — M. G. 299. $C_{19}H_9O_8N$ 1) Anhydrid d. Methenylbisindandionmonoxim. Sm. 303° u. Zerrs.

(G. 33 [2] 156 C. 1903 [2] 1272). *1) 3-Brom-2-[1,3-Diketo-2,3-Dihydro-2-Indenyl]-1,4-Naphtochinon. $C_{19}H_9O_4Br$

NH4, Na (B. 35, 3957 C. 1903 [1] 32). $\mathbf{C_{19}H_{9}O_{5}Br}$ 1) 1-Keto-2-[2-Brom-1,3-Diketo-2,3-Dihydro-2-Indenyl|inden-3-

Carbonsaure. Sm. 234° (B. 35, 3960 C. 1903 [1] 32). $\mathbf{C}_{19}\mathbf{H}_{9}\mathbf{O}_{5}\mathbf{Br}_{5}$

1) Pentabromformononetin. Sm. 325° (M. 25, 578 C. 1904 [2] 907). C 44,4 — H 1,9 — O 37,3 — N 16,3 — M. G. 514.
1) Tri[2,4-Dinitrophenyl|methan. Sm. 260° u. Zers. HNO₈ (B. 36, $\mathbf{C}_{10}\mathbf{H}_{10}\mathbf{O}_{12}\mathbf{N}_{6}$

2779 C. 1903 [2] 880).

C 73,1 — H 3,2 — O 10,3 — N 13,4 — M. G. 312. $C_{19}H_{11}O_{2}N_{8}$

1) Dioxim d. α -Diphenylenpyridindiketon (G. 33 [1] 425 C. 1903 [2] 95.1 μ . $\mathbf{C_{19}H_{11}O_{3}N}$ 2) Imid d. 2-Benzoylnaphtalin-1,8-Dicarbonsäure. Sm. 252° (Bl. [3]] 31, 380 C. 1904 [1] 1271).

2) Anhydrid d. Methenylbisindandiontrioxim. Sm. 312° u. Zers. (G. 33 $C_{19}H_{11}O_{3}N_{3}$ [2] 158 C. 1903 [2] 1273).

 $C_{19}H_{11}O_4N$ Anhydrid d. 2-[a-Oximidobenzyl|naphtalin-4,5-Dicarbonsäure. Sm. 242° u. Zers. (Bl. [3] 31, 380 C. 1904 [1] 1271).

2) 2,2'-Dichinolylketon. Sm. 230—240° (B. 37, 1239 C. 1904 [1] 1362). 1) 3,5-Dibrom-4-Keto-1-Diphenylmethylen-1,4-Dihydrobenzol. Sm. C19H12ON2 C19H12OBr. 1) 3,5-Dibroin-4-Action-1-Diplienty intentity in 1,4-Diffusion 232° (225°) (B. 34, 3078; B. 36, 3237 C. 1903 [2] 883). C 69,5 — H 3,6 — O 9,8 — N 17,1 — M. G. 328. 1) Homofluorindin-2-Carbonsäure (B. 36, 4033 C. 1904 [1] 294). C, H, O, N, C, H, O, N, 7) 6-[2-Oxy-1-Naphtylazo]-1,2-Benzpyron. Sm. 222° (Soc. 85, 1234) C. 1904 [2] 1124). 2) Diacetat d. 5,6-Dioxy-2-Keto-1-[?-Dichlorbenzyliden]-1,2-Dihydro-C19H12O6Cl2 benzfuran. Sm. 189-1910 u. Zers. (B. 29, 2434). - *III, 532 Triacetat d. 2,3,5,2',3',5'-Hexabrom-α,4,4'-Trioxydiphenylmethan. Sm. 204° (A. 330, 76 C. 1904 [1] 1148).
 5-[2-Oxyphenyl]akridin. Sm. 289—290° u. Zers. (Bl. [3] 31, 1085 C. 1904 [2] 1508). C19H19OgBrg C, H, ON 8) 5-[4-Oxyphenyl]akridin. Sm. 355-356° u. Zers. (2HCl, PtCl,) (HCl, AuCl₃), H_2 Cr₂O₇, Pikrat (Bl. [3] 31, 1091 C. 1904 [2] 1509). 9-Phenylxanthoniumchlorid. + FeCl₃, + HgCl₂ (B. 37, 2935) 1) 9-Phenylxanthoniumchlorid. C19H18OCL C. 1904 [2] 1142). 1) a, 3, 5-Tribrom-4-Oxytriphenylmethan. Sm. 130-1330 (B. 36, 3243) C, H, OBr. C. 1903 [2] 884). 2) 9-Phenylxanthoniumtribromid. Sm. 168-170° u. Zers. (B. 37, 2936) C. 1904 [2] 1142). C. 1904 [2] 1142).

6) o-Methylchinophtalon. Sm. 276,5—277° (279°) (B. 36, 3917 C. 1904 [1] 97; B. 37, 3017 C. 1904 [2] 1409).

7) p-Methylchinophtalon. Sm. 233° (B. 37, 3017 C. 1904 [2] 1409).

8) o-Methylisochinophtalon. Sm. 235° (B. 37, 3017 C. 1904 [2] 1409).

9) p-Methylisochinophtalon. Sm. 237° (B. 37, 3017 C. 1904 [2] 1409).

10) u-Di-o-Benzylenolpyridin. Sm. 270—275° (G. 33 [1] 425 C. 1903 C,0H,3O,N [2] 951). 11) Imid d. 2-Benzylnaphtalin-4, 5-Dicarbonsäure. Sm. 227° (Bl. [3] 31, 378 C. 1904 [1] 1271; Bl. [3] 31, 924 C. 1904 [2] 778). 8) ?-Phenylazo-5-Oxy-1-Phenylbenzoxazol. Sm. 1840 (B. 35, 4202 C19H13O2N3 C. 1903 [1] 146). 3) Naphtostyrilphenylessigsäure. Sm. 186-187° (B. 35, 4222 C. 1903 C19H18O8N [1] 166). C 68,0 — H 3,9 — O 23,9 — N 4,2 — M. G. 335. C19H18O5N 1) $1 - [\alpha - Oximidobenzyl]$ naphtalin - 4, 5 - Dicarbonsäure. Sm. 1990 (A. 327, 98 C. 1903 [1] 1228). *1) α -Oxytri[4-Nitronbenyl methan. Sm. 188—189° (u. 167°). $+\frac{1}{2}$ C₆H₆ (C. 1904 [1] 461; ... 37, ... 1904 [1] 1649; B. 37, 3355 C. 1904 $C_{19}H_{18}O_7N_8$ 2] 1126). 2) Diacetat d. 5,6-Dioxy-2-Keto-1-[3-Nitrobenzyliden]-1,2-Dihydrobenzfuran. Sm. 218-219° (B. 29, 2434). — *III, 532. $C_{19}H_{18}O_8N$ 3) Diacetat d. 5,6-Dioxy-2-Keto-1-[4-Nitrobenzyliden]-1,2-Dihydrobenzfuran. Sm. 219° (B. 37, 823 C. 1904 [1] 1151).

1) 9-Phenylthioxanthoniumehlorid. + FeCl₃ (B. 37, 2937 C. 1904 C, H, ClS [2] 1143). 1) 9-Phenylthioxanthoniumtribromid. Sm. 180° (B. 37, 2938 C. 1904 $C_{19}H_{18}Br_8S$ 27 1143). 1) 9-Oxy-9-Phenylthioxanthen. Sm. 105-106° (B. 37, 2937 C. 1904 C19H14OS [2] 1142). C₁₀H₁₄O₂N₂ 12) Benzoat d. 3-Oxyazobenzol. Sm. 91,5-92° (B. 36, 4104 C. 1904) [1] 271). $C_{10}H_{14}O_{2}Br_{2}$ 1) 3,5-Dibrom- α ,4-Dioxytriphenylcarbinol. Sm. 138° (B. 36, 3242) C. 1903 [2] 884). 1) Diphenyläther d. 3, 6-Dimerkapto-2-Methyl-1, 4-Benzochinon. Sm. 141-142° (A. 336, 160 C. 1904 [2] 1300). C19H14O2S2 2) Phenylamid d. 5-Nitroazobenzol-2-Carbonsäure. Sm. 180,5° (B. 35, C19H14O8N4 2717 C. 1902 [1] 638; B. 36, 4375 C. 1904 [1] 446). 4) Sulton d. α-Oxytriphenylmethan-2-Sulfonsäure. Sm. 210° (B. 37, C,9H,4O,S 3267 C. 1904 [2] 1031). 1) Dilakton d. $\gamma\delta$ -Dibrom- αs -Dioxy- αs -Diphenylpentan- $\beta\gamma$ -Dicarbonsäure. Sm. 192° (A. 331, 185 C. 1904 [1] 1212).

2) 2-Keto-1, 3-Di[3-Nitrobenzyliden]-R-Pentamethylen.

(B. 36, 1504 C. 1903 [1] 1352).

 $C_{19}H_{14}O_{4}Br_{2}$

 $C_{19}H_{14}O_5N_2$

3) 2-Keto-1, 3-Di[4-Nitrobenzyliden]-R-Pentamethylen. Sm. 240° $C_{19}H_{14}O_5N_2$

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u. Zers. (B. 36, 1504 C. 1903 [1] 1352).
*2) Diphenylester d. Benzol-1-Carbonsäure-2-Sulfonsäure (Am. 30, 297 C. 1903 [2] 1121). $C_{19}H_{14}O_5S$

1) 4,4'-Diacetat d. α -Oxy- β -Keto- $\alpha\beta$ -Di[3,5-Dichlor-4-Oxyphenyl]- $C_{19}H_{14}O_6Cl_4$ äthan-α-Methyläther. Sm. 128-130° (A. 325, 59 C. 1903 [1] 462).

1) α-Chlor-4-Bromtriphenylmethan. Sm. 111° (B. 37, 1633 C. 1904 $C_{19}H_{14}ClBr$ [1] 1649). 1) a-Chlor-4-Jodtriphenylmethan. Sm. 119° (B. 37, 1633 C. 1904 [1 C₁₉H₁₄ClJ

1649). 14) 3-[α-Oximidobenzyl]acenaphten. Sm. 185° (175°) (A. 327, 97 C. 1903 $C_{19}H_{15}ON$

[1] 1228; Bl. [3] **31**, 861 C. 1904 [2] 653). *4) isom. 5-Benzoylamido-2-Methyl-α-oder-β-Naphtimidazol. Sm. 280° C₁₉H₁₅ON₈ u. Zers. (Soc. 77, 1165; Soc. 83, 1199 C. 1903 [2] 1445).

6) Phenylamid d. Azobenzol-2-Carbonsäure. Sm. 1136 (B. 36, 4376 C. 1904 [1] 446).

 $C_{19}H_{15}O_{2}N_{3}$ 20) 4-Phenylamidoazobenzol-4°-Carbonsäure. Sm. 221—222° (D.R.P. 146950 C. 1903 [2] 1402; D.R.P. 150469 C. 1904 [1] 1115). 21) Benzoat d. 4-Oxy-1-Phenylamidodiazobenzol. Sm. 132,5° (B. 36,

4145 C. 1904 [1] 186).

*2) α-Oxy-4-Nitrotriphenylmethan. Sm. 97-98° (B. 37, 606 C. 1904 C19H15O3N [1] 887).

 $C_{19}H_{15}O_4N$ 11) α -Phenyl- α -[1-Naphtyl]amidoessigsäure-8-Carbonsäure. Na_2 (B. 35, 4222 C. 1903 [1] 166). 12) Aethylester d. α -Cyan- β -Benzoxyl- β -Phenylakrylsäure. Sm. 78 bis

79° (C. r. 136, 691 C. 1903 [1] 920; Bl. [3] 31, 336 C. 1904 [1] 1135). $C_{19}H_{15}O_4Br$

2) Dilakton d. γ - oder - δ -Brom- $\alpha \varepsilon$ -Dioxy- $\alpha \varepsilon$ -Diphenylpentan- $\beta \gamma$ -Dicarbonsäure. Sm. 186° (4. 331, 186 C. 1904 [1] 1212). 3) Oxim d. Dipiperonalaceton? Sm. 159—161° (G. 29 [2] 418). $C_{19}H_{15}O_5N$ *III, 192.

C19H15O8N5 C 55,8 — H 3,7 — O 23,4 — N 17,1 — M. G. 409.

1) 2,4,6-Trinitro-3,5-Di[Phenylamido]-1-Methylbenzol. Sm. 2060 (R. 23, 128 C. 1904 [2] 201).

 $\mathbf{C}_{19}\mathbf{H}_{15}\mathbf{N}_{2}\mathbf{C}\mathbf{l}$ 4) α-Chlor-α-Phenylimido-α-Diphenylamidomethan. Sm. 90-92° (B. 37, 964 C. 1904 [1] 1002). C19H15N4C1

2) α -Phenylhydrazon- α -Phenylazo- α -[2-Chlorphenyl] methan. Sm. 190 $^{\circ}$ (C. 1903 [2] 427) $C_{10}H_{16}ON_2$ 19) α -Benzoyl- $\alpha\beta$ -Diphenylhydrazin. Sm. 138—139° (C. r. 136, 1553)

C. 1903 [2] 359; \vec{B} . 36, 139 C. 1903 [1] 507). 20) isom. α -Benzoyl- $\alpha\beta$ -Diphenylhydrazin. Sm. 126° (C. r. 136, 1554

C. 1903 [2] 359).

16) α -Phenylazo- α -Phenylhydrazon- α -[2-Oxyphenyl]methan. Sm. 164 $C_{19}H_{16}ON_4$ bis 165° (C. 1903 [2] 426). 17) 6-Oxy-3-Phenylazo-1-Phenylhydrazonmethylbenzol (C. 1903 [2]

427). 18) 6-Acetyl-3-Methyl-1,4-Diphenylbipyrazol. Sm. 174° (B. 36, 527

C. 1903 [1] 642). C19H14OC14

1) 1,3-Dichlor-2-Keto-1,3-Di[α-Chlorbenzyl]-R-Pentamethylen. Sm. 185° u. Zers. (B. 36, 1500 C. 1903 [1] 1351). C₁₉H₁₆O₂N₄ 12) 3,5-Dioxy-?-Diphenylazo-1-Methylbenzol. Sm. 229-230° u. Zers.

(A. 329, 304 C. 1904 [1] 793). 13) α -[1-Phenyl-2,3-Dimethylpyrazolon-[5]-yl-[4]-imid d. Isatin. Sm. 269° u. Zers. Pikrat (B. 36, 4132 C. 1904 [1] 463).

1) 3,6-Diphenyläther d. 3,6-Dimerkapto-2,5-Dioxy-l-Methylbenzol. $C_{19}H_{16}O_2S_2$ Sm. 78-80° (A. 336, 161 C. 1904 [2] 1300).

2) 2,4,6-Trioxy-3,5-Diphenylazo-1-Methylbenzol. Sm. 238° (A. 329, 283 C. 1904 [1] 796). $C_{19}H_{16}O_{8}N_{4}$

4) 2,4-Dinitro-3,5-Di[Phenylamido]-1-Methylbenzol. Sm. 162° (R. 23, $\mathbf{C}_{19}\mathbf{H}_{16}\mathbf{O}_{4}\mathbf{N}_{4}$ 126 C. 1904 [2] 200). C19H16O4S

1) 4-Oxytriphenylmethan- α -Sulfonsäure. Na + 3 $^{1}/_{2}$ H $_{2}$ O (B. 36, 2793 C. 1903 [2] 883).

3) 1-Acetyl-3-Keto-5-[4-Acetylamidophenyl]-2,3-Dihydroindol-2-C19H16O5N2 Carbonsäure? Sm. 2920 (C. 1903 [1] 35).

- $C_{19}H_{16}O_5N_4$
- C 60,0 H 4,2 O 21,1 N 14,7 M. G. 380.

 1) Methyläther d. 2,6-Dinitro-3,5-Di[Phenylamido]-1-Oxybenzol. Sm. 234° (R. 23, 117 C. 1904 [2] 205).
- 3) α -Aethylester d. 2-Carboxyphenylazobenzoylbrenztraubensäure. $C_{19}H_{18}O_{8}N_{2}$ Sm. 158—160° u. Zers. (B. 37, 2208 C. 1904 [2] 324).
- $C_{19}H_{16}O_6N_6$
- C 53,8 H 3,8 O 22,6 N 19,8 M. G. 424.

 1) Tri[2-Nitro-4-Amidophenyl]methan. Sm. noch nicht bei 300° (B. 36, 2781 C. 1903 [2] 880),
- 3) Tetramethyläther d. 6,8-Dibrom-5,7-Dioxy-2-[3,4-Dioxyphenyl]- $\mathbf{C}_{19}\mathbf{H}_{16}\mathbf{O}_{6}\mathbf{Br}_{2}$ 1,4-Benzpyron. Sm. 261—262° (B. 37, 2626 C. 1904 [2] 538).
- 1) Dipiperonylidenacetonbishydrosulfonsäure. $C_{19}H_{16}O_{11}S_2$ $K_2 + 2^{1/2}H_2O$, Ba (B. 37, 4055 C. 1904 [2] 1649).
- 1) α-Chlor-2-Amidotriphenylmethan. HCl (B. 37, 3195 C. 1904 [2] C₁₉H₁₆NCl 1471).
 - 2) α-Chlor-4-Amidotriphenylmethan. HCl (B. 37, 601 C. 1904 [1] 886).
- *2) α -Oxy-4-Amidotriphenylmethan. HCl (\dot{B} . 37, 599 C. 1904 [1] 886). 12) α -Oxy-2-Amidotriphenylmethan. Sm. 121,5°. 2HCl + H₂O, Pikrat C,9H,7ON
 - (B. 37, 3192 C. 1904 [2] 1471). 13) 4-Dimethylamidophenyl-1-Naphtylketon. Sm. 115 (D.R.P. 42853).
 - *III, *194*. 14) 4-Dimethylamidophenyl-2-Naphtylketon. Sm. 127° (D.R.P. 42853).
 - *III, *195*. 15) Triphenylmethylhydroxylamin. Sm. 124—135° (B. 37, 3152 C. 1904
- [2] 1047). *1) β -Diphenylamido- α -Phenylharnstoff. Sm. 206—207° (B. 36, 3157) $C_{19}H_{17}ON_{8}$ C. **1903** [2] 1057).
 - 4) Methyläther d. 2-Oxy-1-Diphenylamidodiazobenzol. Sm. 30-320
 - (C. r. 139, 571 C. 1904 [2] 1497). 5) Methyläther d. 4-Oxy-I-Diphenylamidodiazobenzol. Fl. (C. r. 139, 571 C. 1904 [2] 1497).
- 16) 2-Oxy-1- $[\alpha$ -Acetylamidobenzyl]naphtalin. Sm. 236—237° (G. 33 [1] 5 $C_{19}H_{17}O_{2}N$ C. 1903 [1] 925).
 - 17) 4-Oxy-1-[4-Acetylamidobenzyl]naphtalin. Sm. 124-126° (M. 23,
- 983 C. 1903 [1] 288). C₁₉H₁₇O₂N₃ 14) Phenylamid d. 4-Aethoxyl-l-Naphtylazoameisensäure. Sm. 238° (A. 334, 198 O. 1904 [2] 835).
- 12) Apoprotopapaverin (J. pr. [2] 68, 200 C. 1903 [2] 839) C19H17O3N
 - 13) Anhydrohydrastinincumaron. Sm. 68-70°. (2HCl, PtCl4) (B. 37, 2743 C. 1904 [2] 544).
- 4) 4-Acetylamido 5 Phenyl 3 [4-Acetylamidophenyl] isoxazol. $C_{19}H_{17}O_8N_3$ oberh. 250° (A. 328, 227 C. 1903 [2] 998).
- *3) Aethylester d. 4,5-Diketo-1,2-Diphenyltetrahydropyrrol-8-Carbonsäure. Sm. 173° (C. r. 139, 211 C. 1904 [2] 656).
 6) 2-Benzoat d. 2-Oximido-1,1-Dioxy-1,2-Dihydronaphtalin-1,1-Dimethyläther. Sm. 109—110° (B. 36, 4171 C. 1904 [1] 287). $C_{19}H_{17}O_4N$

 - 7) 2-Keto-5, 6-Dioxy-1-[4-Dimethylamidocinnamyliden]-1, 2-Dihydrobenzfuran. Sm. 262 (B. 37, 826 C. 1904 [1] 1152). C 62,1 H 4,6 O 21,8 N 11,4 M. G. 367.
- C19H17O5N8
 - Aethylester d. δ-Phenylazo-y-Keto-α-[4-Nitrophenyl]-α-Buten-δ-Carbonsäure. Zers. oberh. 100°. Na (B. 36, 1450 C. 1903 [1] 1345).
 Aethylester d. 6-Keto-2-Phenyl-4-[8-Nitrophenyl]-3,4,5,6-Tetra-
 - hydro 1,3 Diazin 5 Carbonsäure. Sm. 181-1820 (Soc. 83, 723 C. 1903 [2] 55).
- Aethylester d. β-Cyan-αγ-Di[4-Nitrophenyl]propan-β-Carbonsäure. Sm. 164—165° (G. 32 [2] 358 C. 1903 [1] 629).
 Bromtrimethylbrasilon. Zers. bei 225° (B. 36, 399 C. 1903 [1] 587). $C_{19}H_{17}O_6N_3$
- $C_{19}H_{17}O_6Br$ - *III, *480*
- $C_{16}H_{17}O_6Br_3$ 1) Tetramethyläther d.3,6,8-Tribrom-5,7-Dioxy-2-[3,4-Dioxyphenyl]-2,3-Dihydro-1,4-Benzpyron. Sm. 200° u. Zers. (B. 37, 2626 C. 1904 [2] 538).
- 2) α -[4-Methoxylphenyl]- β -[2-Nitro-3-Acetoxyl-4-Methoxylphenyl]-akrylsäure. Sm. 215° (B. 35, 4407 C. 1903 [1] 342). C₁₉H₁₇O₈N
- 4) 4-Methylphenyläther d. 4'-Merkaptodiazoamidobenzol. Sm. 850 C19H17N3S (J. pr. [2] 68, 275 C. 1903 [2] 994).

 $C_{19}H_{18}ON_2$ *2) α -Oxy-4,4'-Diamidotriphenylmethan. Sm. 173-175° (B. 37, 20)

C 68.2 - H 5.4 - O 9.6 - N 16.8 - M. G. 334.

 $C_{19}H_{18}O_8Br_4$ 2) Dimethyläther d. $\alpha\,\beta\delta\varepsilon$ -Tetrabrom - γ - Keto - $\alpha\varepsilon$ -Di[4-Oxyphen y pentan. Sm. 157—159° u. Zers. (B. 36, 1475 C. 1903 [1] 1348).

C 59.7 - H 4.7 - O 20.9 - N 14.7 - M. G. 382

Carbonsäure? Sm. 134° (C. 1904 [1] 1259).

17) 4'- Phenylamido - 4 - Oxy-3-Methyldiphenylamin (D. R.P. 150)

18) 2-Keto-1,3-Di[4-Amidobenzyliden]-R-Pentamethylen (B. 36, 18)

Aethylester d. α-Cyan-α-Imido-γ-Phenylhydrazonbutan-β-Carbo säure. Sm. 163° (A. 332, 153 C. 1904 [2] 192).
 Verbindung (aus Merkaptobenzol u. 2-Methyl-1,4-Benzochinon). Sp. 97° (A. 336, 159 C. 1904 [2] 1300).

8) 3-Keto-4-Aethyl-2, 6-Diphenyl-2, 3, 4, 5-Tetrahydro-1, 2-Diazin

9) Aethylester d. 6-Keto-2, 4-Diphenyl-3, 4, 5, 6-Tetrahydro-1, Diazin-5-Carbonsäure. Sm. 188° (Soc. 83, 376 C. 1903 [1] 845, 114

2) 1,1-Dimethyläther-2-[4-Nitrobenzyl] äther d. 2-Oximido-1,1-Diox

1,2-Dihydronaphtalin. Sm. 97-98° (B. 36, 4170 C. 1904 [1] 287

C. 1904 [2] 776).

C. 1904 [1] 1467).

C. 1903 [1] 1352).

 $C_{19}H_{18}O_{2}N_{4}$

C19H18O2S2

 $C_{19}H_{18}O_8N_2$

 $C_{19}H_{18}O_5N_2$

 $C_{19}H_{18}O_5N_4$

 Aethyläther d. β-Cyan-β-Imidooxymethyl-αγ-Di[4-Nitropheny propan. Sm. 169-170° (G. 32 [2] 363 C. 1903 [1] 629). 2) 2-Acetat d. $\alpha\beta$ -Dibrom- γ -Keto- γ -[2,3,4-Trioxyphenyl]- α -Phenypropan-3,4-Dimethyläther. Sm. 140° (B. 36, 423) C. 1904 [1] 38 $C_{19}H_{18}O_5Br_2$ benzol - 3, 4 - Methylenäther - 2, 5 - Dimethyläther. Sm. 117-11 (C. 1903 [1] 970). 1) Sulfonsäure (aus Dibenzalaceton). Na + 3H₂O, K + 4H₂O (B. 5 $C_{19}H_{18}O_6S$ 1491 C. 1903 [1] 1350). C 56,7 — H 4,5 — O 31,8 — N 6,9 — M. G. 402. $C_{19}H_{18}O_8N_9$ 1) Methylendi[Phenylamidoessigsäurecarbonsäure]. Sm. 206-207 o Zers. (C. 1903 [2] 835). 2) Diacetat d. ββ-Di[?-Nitro-4-Oxyphenyl]propan. Sm. 150° (C. 19 [2] 1737). C₁₀H₁₈NBr₈ *1) 2,5,8-Tribrom-1,3,4,6,7,9-Hexamethylakridin? Sm. 287° (Soc. 8 1202 O. 1904 [2] 1060). $C_{19}H_{19}ON$ 7) 4-Aethylamidophenyl-[2-Oxy-1-Naphtyl]methan. Sm. 99-10 HCl, N_2SO_4 (M. 23, 999 C. 1903 [1] 290). 8) 4-Aethylamido-[4-Oxy-1-Naphtyl] methan. Sm. 169°. H₂SO₄ (M. 2 998 C. **1903** [1] 290). 9) s-Oximido-as-Di[4-Methylphenyl]-ay-Pentadiën. Sm. 178° (B. 3 852 *C.* 1903 [1] 976). *1) ω -Oxytri[4-Amidophenyl]methan. (HCl, HgCl₂), HBr + 3H₂O, HF, HNO₃, H₂SO₄ + 3H₂O (C. 1904 [1] 460; B. 37, 3031 C. 1904 $C_{19}H_{19}ON_3$ 2) 3-Benzoylimido-1,4,5-Trimethyl-2-Phenyl-2,3-Dihydropyraz C₁₉H₁₉O₂N 11 γ-Keto-β-Benzoyl-α-[4-Dimethylamidophenyl]-α-Buton. Sm. 18 (B. 37, 1744 C. 1904 [1] 1599).

12) 4-Aethylamidophenyl-[2,7-Dioxy-l-Naphtyl]methan. Sm. 153 In 154° (M. 23, 1001 C. 1903 [1] 290). 13) 1-Amylamido-9,10-Anthrachinon. Sm. 90° (D.R.P. 144634 C. 190 [2] 750)*1) Galipidin. Sm. 113° (182°?) (C. 1903 [2] 1010). $C_{19}H_{19}O_8N$ *2) Acetylapomorphin (B. 35, 4386 C. 1903 [1] 339).
5) Anhydrohydrastininacetophenon. Sm. 74°. (2 HCl, PtCl₄) (B. 3 215 C. 1904 [1] 591). 6) Phenylmonamid d. α-Phenyl-α-Buten-δ-Carbonsäure-γ-Methy carbonsäure. Sm. 142° (B. 36, 2339 C. 1903 [2] 438). $C_{19}H_{19}O_{3}N_{3}$ 2) Verbindung (aus Dicyanbenzoylessigsäureäthylester). Sm. 155° (A. 33 151 C. 1904 [2] 192). 1) Hydrobromid d. Dianisalaceton. Sm. 165° u. Zers. (B. 36, 35- $C_{19}H_{19}O_3Br$ C. 1903 [2] 1369).

- *1) Bulbocapnin (Soc. 83, 625 C. 1903 [1] 1364). $C_{19}H_{19}O_4N$
 - 9) Trimethyläther d. Papaverolin (Protopapaverin). Zers. bei 240° (260°). Na, HCl + 5H₂O, (2HCl, PtCl₄), HBr + 5H₂O, HJ + 3H₂O, Oxalat + 5H₂O, Pikrat, + HgCl₂ (C. 1903 [1] 844; J. pr. [2] 68, 199 C. 1903 [2] 838).
 - 10) ε -Oximido $\gamma\delta$ -Diphenylhexan $\gamma\delta$ -Oxyd β -Carbonsäure. Sm. 172 bis 173° u. Żers. Ag (Soc. 83, 295 C. 1903 [1] 878).
- 4) δ-Semicarbazon-βη-Diphenylpentan-βη-Oxyd-α-Carbonsäure. Sm. 198° u. Zers. (Soc. 83, 291 C. 1903 [1] 877).
 5) Di[Methylphenylamid] d. Acetoximidomalonsäure. Sm. 130° (Soc. $C_{19}H_{19}O_4N_8$
 - 83, 42 C. 1903 [1] 442)
 - 6) isom. Di [Methylphenylamid] d. Acetoximidomalonsäure. Sm. 2230 (Soc. 83, 43 C. 1903 [1] 442).
- Sm. 181—184° (B. 21, 3014; $C_{19}H_{19}O_5Br$ 1) Trimethyläther d. Brombrasilin, 27, 525; 36, 398). — III, 653; *III, 479.
- 3) 23,24-Dimethyläther-7-Aethyläther d. 3-Oximido-7-Oxy-2-[3,4- $C_{19}H_{19}O_6N$ Dioxyphenyl]-2,3-Dihydro-1,4-Benzpyron. Sm. 175-176° (B. 37, 788 C. 1904 [1] 1157).
 - 4) Oxim d. β-Trimethýlbrasilon. Sm. 203—205° (B. 36, 398 C. 1903 [1] 587). — *III, 480.
 - 5) Verbindung (aus Cotarnin u. Protokatechualdehyd). (B. 37, 1964 C. 1904 [2] 44). $HCl + H_0O$
- 3) Lakton d. y-Phenylhydrazon-a-Oxy-a-[6-Nitro-3,4-Dimethoxyl- $C_{19}H_{19}O_6N_8$ phenyl] butan - 2 - Carbonsäure (Phenylhydrazon d. Acctonylnitromekonin). Sm. 1840 (B. 36, 2209 C. 1903 [2] 443).
- 4) 2⁸, 2⁴, 5, 7-Tetramethyläther d. 3-Oximido-5, 7-Dioxy-2-[3, 4-Dioxy- $C_{19}H_{19}O_7N$ phenyl]-2, 3-Dihydro-1, 4-Benzpyron. Sm. 183° u. Zers. (B. 37, 1404) C. 1904 [1] 1355).
- *1) Nitrooxydihydrotrimethylbrasilon. Sm. 222-225° (B. 35, 4285 $C_{19}H_{19}O_9N$ C. 1903 [1] 291; B. 36, 2321 C. 1903 [2] 443).
- Jodmethylat d. 3,6-Dimethyl-1,4-Diphenylbipyrazol. Sm. 205° (B. 36, 529 C. 1903 [1] 642).
 5-Acetyl-6-Methyl-2,4-Diphenyl-1,2,3,4-Tetrahydro-1,3-Diazin. $C_{19}H_{19}N_4J$
- $C_{19}H_{20}ON_2$
 - Sm. 147° (Soc. 85, 459 C. 1904 [1] 1080, 1438). 11) Benzyläther d. 3,3-Dimethyl-2-[α -Oximidoäthyl] pseudoindol. Sm. 77-78° (G. 32 [2] 430 C. 1903 [1] 838).
 - 12) Dehydrocinehonidin. Sm. 194°. $HCl+2H_2O$, Oxalat $+H_2O$ (J. pr. [2] 69, 205 C. 1904 [1] 1448).
- $C_{10}H_{20}O_2N_2$ 13) Dimethyläther d. s-[2-Oxyphenyl]imido- α -[2-Oxyphenyl]amidoαγ-Pentadiën. HBr (J. pr. [2] 70, 47 C. 1904 [2] 1236).
 - 14) Dimethyläther d. ε-[4-Oxyphenyl]imido-α-[4-Oxyphenyl]amido-αγ-Pentadiën. HBr (J. pr. [2] 70, 48 C. 1904 [2] 1236).
 15) 1,2-Dibenzoyl-3,5-Dimethyltetrahydropyrazol. Sm. 204,5° (B. 36,
 - 223 C. 1903 [1] 522).
- 3) Benzylidenhydrazid d. u-Benzoylamidoacetylamidopropionsäure. $C_{19}H_{20}C_{8}N_{4}$ Sm. 216° (J. pr. [2] 70, 119 C. 1904 [2] 1037).
 - 4) Benzylidenhydrazid d. a-Benzoylamidopropionylamidoessigsäure.
- 1) Dianisalacetondihydrochlorid. Sm. 123° (B. 36, 1474 C. 1903 [1] C₁₉H₂₀O₈Cl₂ 1348).
- Dihydrobromid d. Dianisalaceton (B. 36, 3543 C. 1903 [2] 1369).
 β_T-Dibrom-α-Oxy-β-Phenyl-γ-[4-Isopropylphenyl] buttersäure. Zers. bei 166—173° (A. 333, 247 C. 1904 [2] 1391). $\mathbf{C}_{19}\mathbf{H}_{20}\mathbf{O}_{3}\mathbf{Br}_{2}$
- γ-[4-Methylphenyl'sulfon-ε-Keto-α-Phenyl-α-Hexen. Sm. 125-126° (Am. 31, 183 C. 1904 [1] 877). C19H20O3S
- 7) α-Phenylhydrazon-α-Phenyl-β-Aethylpropan-γγ-Dicarbonsäure. Sm. 162° u. Zers. Diphenylhydrazinsalz (C. 1904 [1] 1258).
 6) Diacetylderivat d. Verb. C₁₆H₁₉O₃N₂. Sm. 211-212° (J. pr. [2] 70, $C_{19}H_{20}O_4N_2$
- $C_{19}H_{20}O_5N_2$ 373 O. 1904 [2] 1566).
- 3) Diäthylester d. α -Phtalylamido δ -Cyanbutan $\alpha\alpha$ -Dicarbonsäure. $C_{19}H_{20}O_6N_2$ Sm. 91° (C. 1903 [2] 33).
- 1) Cinnamylidenbenzylidenacetonbishydrosulfonsäure. $K_2 + 3H_0O$ $C_{19}H_{20}O_7S_2$ (B. 37, 4053 C. 1904 [2] 1649).

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C 52.8 — H 4.6 — O 29.6 — N 13.0 — M. G. 432.
 C19 H20 O8 N4
                          1) Di [?-Nitro-4-Methoxylphenylamid] d. Propan-αβ-Dicarbonsäure.
                              Sm. 202° (G. 34 [2] 266 C. 1904 [2] 1453).
C 54,3 — H 4,8 — O 34,3 — N 6,6 — M. G. 420.
 C_{19}H_{20}O_{9}N_{2}
                          1) Oxim d. Nitrotrimethylbrasilon. Sm. 159-162° (B. 36, 2321 C. 1903
                          3) d-1-[\beta]-Phenylisobutyryl]amido-2,3-Dihydroinden. Sm. 148-149°
 C19 H21 ON
                              (Soc. 85, 449 C. 1904 [1] 1445).
                          4) d1-1-[β-Phenylisobutyryl]amido-2, 3-Dihydroinden. Sm. 110-1110
                         (Soc. 85, 444 C. 1904 [1] 954, 1445).
5) isom. dl-1-[\beta-Phenylisobutyryl]amido-2, 3-Dihydroinden. Sm. 119,5°
                              (Soc. 85, 445 C. 1904 [1] 954, 1445).
                          6) 1-Naphtylamid d. α-Oktin-α-Carbonsäure. Sm. 99-100° (C. r. 136,
                              554 C. 1903 [1] 825).
                         4) \alpha=[3-Methylphenyl]amido-\beta-Acetyl-\gamma-Keto-\alpha-Phenylbutan. Sm. 99 bis 100° (Soc. 85, 1174 C. 1904 [2] 1215).
 C_{19}H_{21}O_2N
                         5) \alpha-[4-Methylphenyl]amido-\beta-Acetyl-\gamma-Keto-\alpha-Phenylbutan. Sm. 96°
                             (Soc. 85, 1174 C. 1904 [2] 1215).
                         6) 3 Methyläther-4-Aethyläther d. 3,5-Dimethyl-2-[3,4-Dioxyphenyl]-
                         indol. Sm. 174° (B. 37, 874 C. 1904 [1] 1154). 7) Dimethylapomorphin. + C_2H_6O (B. 35, 4388 C. 1903 [1] 339)
 C_{19}H_{21}O_2N_8
                         3) β-Semicarbazon-γδ-Diphenylhexan-γδ-Oxyd. Sm. 204° (Soc. 83, 297
                              C. 1903 [1] 878).
 C_{10}H_{21}O_8N
                      *6) Methyläther d. Thebenin. HCl, H.SO. (B. 36, 3082 C. 1903 [2] 955;
                             B. 37, 2785 C. 1904 [2] 716).
                      *7) Aethylester d. α-Phenylamido-γ-Oxy-α-Phenyl-β-Buten-β-Carbon-säure. Sm. 103—104° (107—108°) (B. 35, 3947 C. 1903 [1] 18; B. 35, 4326 C. 1903 [1] 283; B. 35, 4439 C. 1903 [1] 283; B. 36, 937
                             C. 1903 [1] 1018).
                      *8) Aethylester d. α-Phenylamido-γ-Keto-α-Phenylbutan-β-Carbon-säure. Sm. 78° (80°) (B. 35, 3947 C. 1903 [1] 18; B. 35, 4326 C. 1903 [1] 283; B. 35, 4439 C. 1903 [1] 283; B. 36, 937 C. 1903 [1] 1018; Soc. 83, 1295 C. 1904 [1] 94).

    15) Aethylester d. α-Phenylamido-γ-Keto-α-Phenylbutan-β-Carbonsäure. Sm. 103° (Soc. 85, 1177 C. 1904 [2] 1216).
    C 67,3 — H 6,2 — O 14,1 — N 12,4 — M. G. 339.
    Phenylamid d. β-Benzoylamidoacetylamidobuttersäure. Sm. 206° (J. pr. [2] 70, 212 C. 1904 [2] 1460).

C19H21O8N3
                        2) Di[Methylphenylamid] d. Oximidomalonäthyläthersäure. Sm. 138°
                             (Soc. 83, 43 C. 1903 [1] 442).
                        (1006. 30, 45 C. 1006 [1] 442).
3) isom. Di[Methylphenylamid] d. Oximidomalonäthyläthersäure. Sm. 168° (Soc. 83, 43 C. 1903 [1] 442).
C 64,2 — H 5,9 — O 18,0 — N 11,8 — M. G. 355.
C19H21O4N3
                       1) Antipyrinorthoform (A. 325, 317 C. 1903 [1] 769).
2) isom. Antipyrinorthoform. Sm. 93° (A. 325, 318 C. 1903 [1] 769).
1) 5,10-Dichlor-1,3,4,6,7,9-Hexamethyl-5,10-Dihydroakridin. Sm. 216°
C_{19}H_{21}NCl_{2}
                       (Soc. 85, 1202 C. 1904 [2] 1060).
2) Brommethylat d. 2-[Methylphenylamido]-1-Phenyl-1,2-Dihydro-
C_{19}H_{21}N_2Br
                    2) Bromhenty at a. 2-[metry (prienty) and (c) -1-rienty (-1, 2-Diny) or benzol. Sm. 139° (J. pr. [2] 69, 134 C. 1904 [1] 816).

*3) Cinchonin (C. r. 136, 181 C. 1903 [1] 525; Soc. 83, 624 C. 1903 [1] 1364; M. 24, 313 C. 1903 [2] 578).

*8) α-Isocinchonin (M. 24, 313 C. 1903 [2] 578).

*9) β-Isocinchonin (M. 24, 313 C. 1903 [2] 578).

*10) Allocinchonin (M. 24, 313 C. 1903 [2] 578).

*20) Cinchoniain (M. 24, 860 C. 1903 [2] 1923.
C,9H,20N,
                   *10) Alloeinenonin (M. 24, 515 U. 1903 [2] 270).

*20) Cinchonicin (M. 24, 669 C. 1903 [2] 1283).

*22) Cinchonidin (C. r. 136, 184 C. 1903 [1] 525).

*33) \( \alpha \tilde{-i} - \text{Pseudocinchonicin} \) (M. 24, 332 C. 1903 [2] 578).

*34) \( \beta \tilde{-i} - \text{Pseudocinchonicin} \) (M. 24, 299 C. 1903 [2] 297; M. 24, 332 C. 1903 [2] 578; M. 24, 675 C. 1903 [2] 1284).

    Phenyläther d. γ-Keto-ε-Merkapto-ε-Phenyl-β-Methylpentan.
Sm. 86-88° (B. 37, 507 C. 1904 [1] 883).

C19H29OS
C<sub>19</sub>H<sub>22</sub>O<sub>2</sub>N<sub>2</sub> *4) \alpha s-Di[Benzoylamido]pentan. Sm. 150 ^{\circ} (b. 31, 5000 ^{\circ} Sm. 197—198 ^{\circ} *22) Phenylamid d. \beta-Methylbutan-\alpha \delta-Dicarbonsäure. Sm. 197—198 ^{\circ}
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459 ---19 III. $C_{19}H_{22}O_2N_2*28$) Di[Phenylamid] d. Pentan- $\alpha\delta$ -Dicarbonsäure (C. 1903 [2] 289). 29) Aethyläther d. Benzoylimido-2, 4, 5-Trimethylphenylamidooxymethan. Sm. 79—80° (Am. 32, 368 C. 1904 [2] 1507).
30) isom. Phenylamid d. β-Methylbutan-αδ-Dicarbonsäure. Sm. 203 bis 204° (C. 1903 [2] 288). 31) Phenylamid d. β -Methylbutan- $\beta\delta$ -Dicarbonsäure. Sm. 147° (C.r. 138, 580 C. **1904** [1] 925). $\mathbf{C_{19}H_{22}O_{8}N_{2}}$ *1) Dioxycinchonidin? (J. pr. [2] 69, 196 C. 1904 [1] 1448). C19H22O8S 1) γ-Keto-ε-Phenylsulfon-ε-Phenyl-β-Methylpentan. Sm. 161-164° (B. 37, 507 C. 1904 [1] 883). $C_{10}H_{22}O_4N_2$ 11) $\beta\beta$ -Di[P-Acetylamido-4-Oxyphenyl]propan (C. 1904 [2] 1737). 12) Di[4-Methoxylphenylamid] d. Propan- $\alpha\beta$ -Dicarbonsäure. Sm. 241 bis 242° (G. 34 [2] 264 C. 1904 [2] 1453). 2) Phenylhydrazon d. Glyazindihydrotetramethyldimalonsäuremethylester-s-Lakton. Sm. 270° (Soc. 83, 1259 C. 1903 [2] 1423). C 63,7 — H 6,1 — O 22,4 — N 7,8 — M. G. 358.

1) Diäthylester d. 1-Benzoylamido-2,5-Dimethylpyrrol-3,4-Dimethylpyrrol-C19H22O4N4 $C_{19}H_{22}O_5N_2$ carbonsäure. Sm. 123-124° (B. 35, 4315 C. 1903 [1] 336). 2) Verbindung (aus uns-Phenylbenzylhydrazin u. Rhamnose). Sm. 50-60° (Soc. 83, 1289 C. 1904 [1] 86).
1) 2-Jodäthylat d. 5-Methylphenylamido-3-Methyl-1-Phenylpyrazol. $C_{19}H_{22}N_8J$ Sm. 184—185° (B. 36, 3277 C. 1903 [2] 1189). 6) α -Phenyläthylamid d. α -Phenylbutan- β -Carbonsäure. C19 H28 ON (B. 37, 2703 C. 1904 [2] 518). d. α - Phenylbutan - β - Carbonsäure. 7) isom. α - Phenyläthylamid Sm. 85-87° (B. 37, 2703 C. 1904 [2] 518). 8) Aethyläther d. 4-Diäthylamido-3'-Oxydiphenylketon. C19H28O2N (D.R.P. 65952). — *III, 153. 9) Benzoat d. γ -Dimethylamido- β -Oxy- α -Phenyl- β -Methylpropan. HCl (C. r. 138, 768 C. 1904 [1] 1196). 10) Phenylamidoformiat d. γ -Oxy- α -Phenyl- γ -Methylbutan. Sm. 94—95° (B. 37, 2317 C. 1904 [2] 217). 11) Phenylamidoformiat d. γ-Oxy-γ-Benzylpentan. Sm. 98° (B. 37, 1724 C. 1904 [1] 1515). 12) Aethylmorphin (D.R.P. 102634, 107225, 108075). — *III, 669.
*4) Cocamin (oder C₈₈H₄₆O₈N₂) (J. pr. [2] 66, 418 C. 1903 [1] 528).
*2) Diäthylester d. 5-Keto-1-Oxy-1-Methyl-3-[3-Nitrophenyl]hexahydrobenzol-2, 4-Dicarbonsäue. Sim. 146° (148°) (Soc. 83, 719 $C_{19}H_{23}O_3N$ $C_{19}H_{28}O_4N$ C19H23O8N C. 1903 [2] 54; A. 332, 35 C. 1904 [1] 1566).

*3) Diäthylester d. 5-Keto-1-Oxy-1-Methyl-3-[4-Nitrophenyl]hexahydrobenzol-2,4-Dicarbonsäure. Sm. 1640 (A. 332, 31 C. 1904 [1] 1566).4) Diäthylester d. isom. 5-Keto-1-Oxy-1-Methyl-3-[4-Nitrophenyl]hexahydrobenzol-2,4-Dicarbonsäure. Sm. 152-1530 (A. 332, 32 C. 1904 [1] 1566). 5) Diathylester d. 3,5 - Dioxy - 3 - Methyl - 1 - [3-Nitrophenyl] - 1,2,3,4-Tetrahydrobenzol-2,6-Dicarbonsäure. Fl. Na + C₂H₆O (A. 332, 36 C. 1904 [1] 1566). 6) Diäthylester d. 3,5-Dioxy-3-Methyl-1-[4-Nitrophenyl]-1,2,3,4-Tetrahydrobenzol-2, 6-Dicarbonsäure. Sm. 129-130°. Na (A. 382, 31 C. 1904 [1] 1566). 7) Diäthylester d. isom. 3,5-Dioxy-3-Methyl-1-[4-Nitrophenyl]-1,2,3,4-Tetrahydrobenzol-2,6-Dicarbonsäure. Sm. 130-135° (A. 332, 33

C. 1904 [1] 1566). $C_{19}H_{24}ON_{2}$

*8) Cinchonamin (\mathcal{O} . r. 136, 185 \mathcal{O} . 1903 [1] 525). 18) α -[d-sec. Butyl]- $\beta\beta$ -Dibenzylharnstoff. Sm. 69° (Ar. 242, 71 \mathcal{O} . 1904 [1] 999).

19) 4-Dimethylamido-4'-Diäthylamidodiphenylketon. Sm. 94° (D.R.P. 44077). — *III, 149.

4) Phenylbenzylhydrazon d. Fukose. Sm. 172-173° (B. 37, 307 $C_{19}H_{24}O_4N_2$ C. 1904 [1] 307). Sm. 192°

4) Phenylhydrazon-Methylphenylhydrazon d. d-Glykose. C19H24O4N4 (192—195°) (B. 37, 3852 C. 1904 [2] 1711; B. 37, 3363 C. 1904 [2] 1210).

Sm. 205° (B. 37, 3852 C. 1904 [2] 1711).

bis 116° (B. 37, 2725 C. 1904 [2] 592).

301 C. 1903 [1] 500).

C. 1904 [1] 649).

C. 1904 [1] 998).

5) isom. Phenylhydrazon - Methylphenylhydrazon d. d - Glykose

2) α-Isoamylsulfon-α-Benzylsulfon-α-Phenylmethan. Sm. 145° (B. 36

4) Phenylbenzylhydrazon d. d-Galaktose. Sm. 189-190° (B. 37, 30

5) Verbindung (aus 2-Keto-1,4,5-Trioxy-1,3-Dimethyl-4,5-Diphenyl-Rentamethylen).
 Sm. 185° u. Zers. (Soc. 83, 301 C. 1903 [1] 878).
 C 49,1 — H 5,2 — O 27,6 — N 18,1 — M. G. 464.

1) Benzoylpenta[Amidoacetyl]amidoessigsäure. Sm. 280 –285° (268 u. Zers.). Ag (J. pr. [2] 24, 240; [2] 26, 197; B. 16, 750; B. 37, 127 C. 1904 [1] 1335; J. pr. [2] 70, 88, 99 C. 1904 [2] 1034, 1035). – II, 1182, 1190.

1) Aethylallylbenzyl-4-Methylphenylammoniumjodid. Zers. bei 11

9) α -[d-sec. Butyl]- $\beta\beta$ -Dibenzylthioharnstoff. Sm. 56° (Ar. 242, 6°

C19H24O4N4

 $C_{19}H_{24}O_4S_2$

 $C_{19}H_{24}O_5N_2$

C19H24O8N6

 $C_{19}H_{24}NJ$

 $C_{19}H_{24}N_2S$

- H 8,8 - O 5,7 - N 4,9 - M. G. 283. $C_{19}H_{25}ON$ 1) Aethylallylbenzyl-4-Methylphenylammoniumhydroxyd. Salze sieh (B. 37, 2726 C. 1904 [2] 592). C 72,4 — H 7,9 — O 15,2 — N 4,4 — M. G. 315. 1) Dihydromethylmorphimethin (B. 32, 1048). — *III, 672. $C_{19}H_{25}O_8N$ 4) Aethylester d. β-Methylamido-ζ-Keto-γ-Acetyl-δ-Phenyl-β-Hepten ε-Carbonsäure. Sm. 198° (B. 36, 2186 U. 1903 [2] 569).
 C 60,1 — H 6,6 — O 29,5 — N 3,7 — M. G. 379. C19 H25 O4N C₁₉H₂₅O₇N 1) Diäthylester d. Anhydrocotarninmalonsäure. Sm. 73 ° (B. 37, 274) C. 1904 [2] 544). C 52,4 — H 5,7 — O 25,7 — N 16,1 — M. G. 435.

1) Aethylester d. Benzoyltetra[Amidoacetyl]amidoessigsäure. Sm 256-257° u. Zers. (244-246°) (B. 37, 1299 C. 1904 [1] 1337; J. pr. [2 70, 96 C. 1904 [2] 1035). C19H25O7N5 $C_{10}H_{25}N_2Br$ *5) isom 4-Bromphenylhydrazon d. β -Jonon. Sm. 166-167" (C. 1904) [1] 281). 6) 4-Bromphenylhydrazon d. Camphenilidenaceton. Sm. 114-115 (D. R. P. 138 211 C. 1903 [1] 269). C 56,7 — H 6,5 — O 15,9 — N 20,9 — M. G. 402. 1) Di[Isopropylidenhydrazid] d. α-Benzoylamidoacetylamidoäthan. αβ-Dicarbonsäure. Sm. 183° u. Zers. (J. pr. [2] 70, 176 C. 1904 [2] $C_{19}H_{26}O_4N_6$ 1396). C 58,5 — H 6,7 — O 20,5 — N 14,3 — M. G. 390.

1) Aethylester d. β-[β-Benzoylamidoacetylamidobutyryl]hydrazon. buttersäure. Sm. 142° (J. pr. [2] 70, 210 U. 1904 [2] 1460). C19H26O5N4 Methyl-l-Amylphenylbenzylammoniumjodid (C. 1904 [2] 952).
 Methylisobutyldibenzylammoniumjodid. Sm. 174-175° (Soc. 83) $\mathbf{C}_{19}\mathbf{H}_{26}\mathbf{N}\mathbf{J}$ 1412 C. 1904 [1] 438). C₁₉H₂₇O₂Br₃ 1) Laurat d. 3,5-Dibrom-2-Oxy-l-Brommethylbenzol. Sm. 60-61 (A. 332, 201 C. 1904 [2] 211). C 60,5 - H 7,1 - O 21,2 - N 11,1 - M. G. 377. C19H27O5N8 Aethylester d. β-[β-Benzoylamidoacetylamidobutyryl] amidobuttersäure. Sm. 103° (J. pr. [2] 70, 220 C. 1904 [2] 1461).
 Chlorhydrin d. Dehydrodioxyparasantonsäurediäthylester. Sm. 1200 (1904) (1904) $C_{19}H_{27}O_5C1$ 170-171° (C. 1903 [2] 1447). Diäthylester d. 4-Methyl-1, 3-Phenylendi [a-Sulfonbuttersäure]. Fl. (J. pr. [2] 68, 338 C. 1903 [2] 1172). $\mathbf{C_{19}H_{28}O_8S_2}$ 2) Aethyloxydhydrat d. Atropin. Nitrat, Sulfat (D.R.P. 138443 C. 1903 $C_{19}H_{29}O_4N$ [1] 427). $C_{19}H_{80}O_{9}N_{6}$ C 46,9 — H 6,2 — O 29,6 — N 17,3 — M. G. 486. 1) Leimpepton (C. 1903 [1] 1144). 2) β -Trypsinglutinpepton (H. 38, 258 \mathcal{C} . 1903 [2] 210; \mathcal{H} . 38, 320 O. 1903 [2] 211). *1) 2-Methylphenylamid d. Laurinsäure. Sm. 81—82° (Bl. [3] 29, 1121 $C_{19}H_{81}ON$ C. 1904 [1] 259). 2) 4-Methylphenylamid d. Laurinsäure. Sm. 82-83° (Bl. [3] 29, 1122 C. 1904 [1] 259).

- $\mathbf{H}_{g_1} \mathbf{O}_2 \mathbf{N}$ C 74,7 - H 10,2 - O 10,5 - N 4,6 - M. G. 305. 4-Methylphenylamid d. α-Oxyundekan-α-Carbonsäure. Sm. 100° (Bl. [3] 29, 1127 C. 1904 [1] 261).
 C 61,4 — H 10,0 — O 17,2 — N 11,3 — M. G. 371. $\mathbf{H}_{37}\mathbf{O}_{4}\mathbf{N}_{3}$ 1) Semicarbazonoxystearinsäure. Sm. 134—135° (B. 36, 2659 C. 1903
 - [2] 826).

- 19 IV -

- 1) Monooxim d. 3-Brom-2-[1,3-Diketo-2,3-Dihydro-2-Indenyl]-H10O4NBr 1,4-Naphtochinon. Sm. 233° (B. 35, 3958 C. 1903 [1] 32).
- $H_{10}O_6N_4S$ 1) 2,4,6-Trinitrophenyläther d. 5-Merkaptoakridin. Zers. (J. pr. [2] 68, 81 C. 1903 [2] 445).

 1) 2, 4, 6-Trinitrophenyläther d. 5-Merkaptoakridin. Zers. bei 198°. Pikrat (J. pr. [2] 68, 94 C. 1903 [2] 446). H₁₀O₆N₄Se
- 1) 2,4-Dinitrophenyläther d. 5-Merkaptoakridin. Sm. 290° u. Zers. H11O4N3S
- H₁₁O₄N₈Se
- 2,4-Dinitrophenyläther d. 5-Merkaptoakridin. Sm. 290° u. Zers. (2 HCl, PtCl₄), Pikrat (J. pr. [2] 68, 83 C. 1903 [2] 445).
 2,4-Dinitrophenyläther d. 5-Merkaptoakridin. Sm. 273°. (2 HCl, PtCl₄), Pikrat (J. pr. [2] 68, 96 C. 1903 [2] 446).
 Di[2-Nitrophenylester] d. 4-Nitrobenzol-1-Carbonsäure-2-Sulfonsäure. Sm. 164° (Am. 30, 381 C. 1904 [1] 275).
 Di[4-Nitrophenylester] d. 4-Nitrobenzol-1-Carbonsäure-2-Sulfonsäure. Sm. 152° (Am. 30, 381 C. 1904 [1] 275).
 Brom-o-Methylchinophtalon (B. 36, 3918 C. 1904 [1] 98).
 6-[4-Brom-1-Amido-2-Naphtyl]azo-1, 2-Benzpyron. Sm. 240-241° n. Zers. (Soc. 85, 751 C. 1904 [2] 448). H,10,11N,S
- $\mathbf{H}_{12}\mathbf{O}_{2}\mathbf{NBr}$ $\mathbf{H}_{12}\mathbf{O}_{2}\mathbf{N}_{8}\mathbf{Br}$ u. Zers. (Soc. 85, 751 C. 1904 [2] 448).
 2) α-Chlor-4,4',4"-Trinitrotriphenylmethan (B. 37, 1639 C. 1904
- $\mathbf{H}_{12}\mathbf{O}_{6}\mathbf{N}_{3}\mathbf{C}\mathbf{I}$ [1] 1649).
- α-Imidobenzyl-4-Chlorphenyl-2,4,6-Trinitrophenylamin. Sm. 171° u. Zers. (J. pr. [2] 67, 468 C. 1903 [1] 1422).
 ο-Methylchinophtalontetrabromid (B. 36, 3918 C. 1904 [1] 98. H₁₂O₆N₅Cl
- $\mathbf{H}_{13}\mathbf{O_{2}NBr_{4}}$ 1) 5-[4-Oxyphenyl] akridin-?-Sulfonsäure. Na (Bl. [3] 31, 1093 $H_{13}O_4NS$ C. 1904 [2] 1509).
- *1) Diphenylester d. 4-Nitrobenzol-1-Carbonsäure-2-Sulfonsäure. H13O7NS Sm. 118—119° (Am. 30, 374 C. 1904 [1] 275).

 1) 4-Methylbenzolsulfonat d. 2', 4', ?, ?-Tetranitro-4-Oxydiphenyl-
- $_{18}O_{11}N_{5}S$ amin. Sm. 189,5° (B. 37, 1732 C. 1904 [1] 1521). 1) α -Chlor-4-Nitrotriphenylmethan. Sm. 92-93° (B. 37, 606 C. 1904)
- $_{14}O_{2}NCl$ [1] 887). $_{0}\mathbf{H}_{14}\mathbf{O}_{5}\mathbf{N}_{2}\mathbf{Br}_{4}$
- 1,3-Dibrom-2-Keto-1,3-Di[α-Brom-3-Nitrobenzyl]-R-Pentamethylen. Sm. 178° u. Zers. (B. 36, 1504 (J. 1903 [1] 1352). 1) N-Acetyl-3,5-Dibrom-2-Oxybenzyl-2-Naphtylamin. Sm. 1370 $_{9}\mathbf{H_{15}O_{2}NBr_{2}}$
- (A. 332, 187 C. 1904 [2] 210). *4) Benzoylphenylamid d. Benzolsulfonsäure. Sm. 1040 (und 1140) 2N₁₅O₈NS
 - (C. r. 137, 714 C. 1903 [2] 1428; Bl. [3] 31, 623 C. 1904 [2] 97).
 6) 4-Phenylsulfonamidodiphenylketon. Sm. 156° (Soc. 85, 397) C. 1904 [1] 1404)
- 1) Phenylamid d. 3-Phenylsulfon-4-Oxyphenylazoameisensäure. 9H15O4N8
- Sm. 195—196° u. Zers. (A. 334, 179 C. 1904 [2] 834).

 1) 4-Methylbenzolsulfonat d. 2',4'-Dinitro-4-Oxydiphenylamin.
 Sm. 178,5 (B. 37, 1731 C. 1904 [1] 1521).

 2) 8-4-Methylphenyläther d. 4'-Merkapto-2,4-Dioxyazobenzol. 9H15O7N8S
- 9H16O2N2S (J. pr. [2] 68, 274 C. 1903 [2] 994).
- $_9\mathbf{H}_{16}\mathbf{O_2N_8Br}$ 1) 8-Brom-5-[6-Cumarylazo]amido-1, 2, 3, 4-Tetrahydronaphtalin. Zers. bei 165-168° (Soc. 85, 750 C. 1904 [2] 448). $_{9}\mathbf{H}_{16}\mathbf{O}_{2}\mathbf{N}_{4}\mathbf{S}$
- 4-Methylphenyläther d. 4-Nitro-4'-Merkaptodiazoamidobenzol. Sm. 166° u. Zers. (J. pr. [2] 68, 276 C. 1903 [2] 994).
 P-Dibrom-P-Di[Phenylamido]-1, 2-Benzochinonmonomethyl- $_{9}\mathbf{H}_{16}\mathbf{O}_{8}\mathbf{N}_{2}\mathbf{Br}_{2}$
- hemiacetal. Sm. 144-145° (B. 35, 3854 C. 1903 [1] 26). *2) s-Di[Phenylamid] d. Benzol-1-Carbonsäure-2-Sulfonsäure (Am. $_{9}\mathbf{H}_{_{1}8}\mathbf{O_{8}N_{9}S}$ 30, 273 C. 1903 [2] 1120).
- 9H18O4N4S 2) α -Phenylhydrazon- α -[4-Sulfophenyl]azo- α -2-Oxyphenylmethan. K (U. 1903 [2] 427).
- 1) 3-Nitrobenzylidendiphenylaminanhydrosulfit. Sm. 128° u. Zers. .9H₁₇O₄N₃S (A. 316, 140). — *III, 21.

Sm. 149° corr. (B. 36, 3194 C. 1903 [2] 956).

(D.R.P. 148505 C. 1904 [1] 488)

*III, 20.

2) Phenylamid d. α -Phenylsulfon- α -[4-Oxyphenyl] hydrazin- β

2) 6-[4-Acetylamidophenyl] ureido-l-Oxynaphtalin-3-Sulfonsäure

3) Benzylidendiphenylaminanhydrosulfit. Sm. 125° (A. 316, 137)

4) isom. Benzylidendiphenylaminanhydrosulfit + ½ H₂O. Sm. 133 bis 133° u. Zers. (A. 316, 139). — *III, 20
1) Diäthyläther d. 6-Chlor-2,4-Di[4-Oxyphenyl]-1,3,5-Triazin

Carbonsäure. Sm. 166—167° u. Zers. (A. 334, 177 C. 1904 [2] 834) 2) 4-Methylbenzolsulfonat d. α -Cyan- β -Oxy- β -Phenylakrylsäure äthylester. Sm. 84° (Bl. [3] 31, 338 C. 1904 [1] 11.35).

C₁₉H₁₇O₄N₈S

 $C_{19}H_{17}O_5NS$

 $C_{19}H_{17}O_6N_8S$

 $C_{19}H_{18}O_{2}N_{2}S$

C₁₉H₁₈O₂N₃Cl

3) Phenylmonamid d. Phosphorsäurephenyl-4-Methylphenylester $C_{19}H_{18}O_8NP$ Sm. 106° (A. 326, 227 C. 1903 [1] 866). 4) Methylphenylmonamid d. Phosphorsäurediphenylester. Sm. 50 (A. 326, 254 C. 1903 [1] 868). 5) Benzylmonamid d. Phosphorsäurediphenylester. Sm. 104-105 (A. 326, 175 C. 1903 [1] 819). 1) Benzoat d. 1-[3,5-Dibrom-2-Oxybenzyl]hexahydropyridin $\mathbf{C}_{19}\mathbf{H}_{19}\mathbf{O}_{2}\mathbf{N}\mathbf{Br}_{2}$ Sm. 110—111° (A. 332, 220 C. 1904 [2] 202). 2) Phenylamid - 4 - Methylphenylamid d. Phosphorsäuremono $\mathbf{C}_{19}\mathbf{H}_{19}\mathbf{O}_{2}\mathbf{N}_{2}\mathbf{P}$ phenylester. Sm. 136-137° (A. 326, 249 C. 1903 [1] 868). $\mathbf{C}_{19}\mathbf{H}_{19}\mathbf{O}_{3}\mathbf{NBr}_{2}$ Acetat d. N-Acetyl-3,6-Dibrom-4-Oxy-2,5-Dimethylbenzyl amin. Sm. 140° (A. 332, 184 C. 1904 [2] 200). *1) Dibromeinchonidin (J. pr. [2] 69, 193 C. 1904 [1] 1448). $\mathbf{C}_{19}\mathbf{H}_{20}\mathbf{ON}_{2}\mathbf{Br}_{2}$ 5) isom. Dibromeinchonidin. Sm. 186°. (2 HBr, Br₂) (J. pr. [2] 69 209 *C.* **1904** [1] 1448). 3) Di[Phenylamid]-Methylphenylamid d. Phosphorsäure. Sm. 192 $C_{19}H_{20}ON_8P$ (A. 326, 255 C. 1903 [1] 869). 1) Acetat d. 3, 6, 3'-Tribrom-4'-Dimethylamido-4-Oxy-2, 5-Di $\mathbf{C}_{10}\mathbf{H}_{20}\mathbf{O}_{2}\mathbf{NBr}_{3}$ methyldiphenylmethan. Sm. 156-157° (A. 334, 300 C. 1904) [2] 985) 2) Acetat d. 2, 6, 3'-Tribrom-4'-Dimethylamido-4-Oxy-3, 5-Di methyldiphenylmethan. Sm. 150-151,5° (A. 334, 324 C. 1904 [**2**] 988). 1) Jodmethylat d. 6,7-Dioxy-1-Benzylianchinolindimathyläther C19H20O2NJ Sm. 206—207° (B. 37, 3401 C. 1904 2 $\mathbf{C}_{19}\mathbf{H}_{20}\mathbf{O}_{4}\mathbf{N}_{2}\mathbf{Br}_{2}$ 1) Di[P-Brom-4-Methoxylphenylamid] d. Propan- $\alpha\beta$ -Dicarbon saure. Sm. 82-83° (G. 34 [2] 267 C. 1904 [2] 1453). *3) isom. Bromeinchonin. C₁₉H₂₁ON₂Br Sm. 225-226°. $HCl + 2H_2O$, 2HBrOxalat + 7H₂O (J. pr. [2] 68, 430 C. 1904 [1] 179).

Bromeinehonidin. Sm. 218°. 2HBr + 2H₂O, Oxalat + 2H₂O 4) Bromeinchonidin. (J. pr. [2] 69, 199 C. 1904 [1] 1448). 1) Acetat d. 3,6-Dibrom-4'-Dimethylamido-4-Oxy-2,5-Dimethyl diphenylmethan. Sm. 144—145° (A. 334, 288 (J. 1904 [2] 984) C₁₉H₂₁O₂NBr₉ 2) Acetat d. 2,6-Dibrom-4'-Dimethylamido-4-Oxy-3,5-Dimethyl diphenylmethan. Sm. 145-146,5° (A. 334, 320 C. 1904 [2] 9873 $C_{19}H_{21}O_4N_4Br$ 1) 4-Bromphenylhydrazon d. Glyazindihydrotetramethyldimalon säuremethylester-s-Lakton. Sm. 196° (Soc. 83, 1259 C. 1903 [2 1423)C₁₉H₂₂ONBr₈ 1) 3,6,3'-Tribrom-4'-Diathylamido-4-Oxy-2,5-Dimethyldiphenyl methan (A. 334, 318 C. 1904 [2] 987). C₁₉H₂₂ON₂Cl₂ 1) Dichlordihydrocinchonin. Sm. 215° (J. 1847/48, 618; B. 25, 1543 M. 25, 904 C. 1904 [2] 1319). 2) Dichlordihydroallocinchonin. Sm. 205—206° (M. 25, 905 C. 1904) [2] 1319). *1) Dibromdihydroeinehonin. 2HBr, 2HNO₈ + H₂O (M. 24, 130 C. 1903 [1] 976; J. pr. [2] 68, 428, 436 C. 1904 [1] 170).
*2) Dibromdihydroeinehonidin. (2HBr, Br₂) (J. pr. [2] 69, 193 $C_{19}H_{22}ON_2Br_2$

3) Dibromdihydro- α -i-Cinchonin? Sm. $199-200^{\circ}$ (M. 24, 12)

C. 1904 [1] 1447).

C. 1903 [1] 976).

- $\mathbf{C}_{19}\mathbf{H}_{22}\mathbf{ON}_{2}\mathbf{Br}_{2}$ 4) Dibromdihydro- β -i-Cinchonin? Sm. 217—218° (M. 24, 126 C. **1903** [1] 976).
- Methylphenylamid-Di[Phenylhydrazid]
 Sm. 148⁶ (A. 326, 255 C. 1903 [1] 869). $\mathbf{C}_{19}\mathbf{H}_{22}\mathbf{ON}_{5}\mathbf{P}$ d. Phosphorsäure.
- 1) Jodmethylat d. Methylapomorphin. (B. 35, 4388 C. 1903 [1] 339). C₁₉H₉₉O₂NJ Sm. 229-230° u. Zers.
- 1) 3,6-Dibrom-6'-Dimethylamido-3'-Acetylamido-4-Oxy-2,5-Di-C19H22O,N,Br, methyldiphenylmethan. Sm. 223-224° (A. 334, 314 C. 1904 [2] 987).
- 3) Jodmethylat d. Codeïnon. Sm. 180° (B. 36, 3073 C. 1903 [2] 953). $C_{19}H_{22}O_3NJ$ 2) 2, 6-Dibrom-4'-Diäthylamido-4-Oxy-3, 5-Dimethyldiphenyl- $C_{19}H_{23}ONBr_2$
- methan. Sm. 132—133°. HBr (A. 334, 325 C. 1904 [2] 988). *2) Hydrochlor-a-Isocinchonin. $C_{19}H_{23}ON_2Cl$ Sm. $185-186^{\circ}$. $H_{2}SO_{4} + 4H_{3}O$ (M. 25, 899 C. 1904 [2] 1319).
- *1) Hydrobromeinchonin. 2HBr (M. 24, 128 C. 1903 [1] 976). $C_{19}H_{28}ON_2Br$
- 1) Menthylester d. α-Cyan-α-[4-Bromphenyl]azoessigsäure (zwei $C_{19}H_{24}O_{2}N_{8}Br$ isom. Formen). Sm. 97-98° (u. 95-105°) (C. 1903 [1] 566; Soc. 85, 45 C. 1904 [1] 789).
- 1) Jodnethylat d. Oxycodein. $+ \frac{1}{2}C_2 H_6 O$ (B. 36, 3070 C. 1903) $C_{19}H_{24}O_4NJ$ [2] 953).
- 1) $r \alpha [2-Naphtylsulfon \alpha Amidoisocapronyl] amidopropionsäure.$ $C_{19}H_{24}O_5N_2S$ Sm. 151° (B. 37, 3107 C. 1904 [2] 1210).
- 1) Aethylhydroxyd d. 3,6-Dibrom-4'-Dimethylamido-4-Oxy-2,5- $C_{19}H_{25}O_{2}NBr_{2}$ Dimethyldiphenylmethan. Sm. 189-190°. Salze siehe (B. 29, 1125; A. 334, 316 C. 1904 [2] 987). — *II, 455.
- 1) Di[4-Methylphenylamid] d. 1-Piperidylphosphinsäure. Sm. 173° C, H, ON, P (A. 326, 187 C. 1903 [1] 820). — *IV, 9.
- 1) Di[4-Methylphenylamid] d. 1-Piperidylthiophosphinsäure. Sm. $C_{10}H_{26}N_8SP$ 190° (A. 326, 215 U. 1903 [1] 822). 1) Bromäthylat d. Atropin. Sm. 173—174° (D.R.P. 145996 C. 1903
- $C_{19}H_{28}O_8NBr$ [2] 1226).
- $C_{19}H_{24}N_8SP$ 1) Amylmonamid-Di[4-Methylphenylamid] d. Thiophosphorsäure. Sm. 129° (A. 326, 205 C. 1903 [1] 821).
- 1) Aethylamid d. ε -Oxy- ε -Phenyl- $\beta \vartheta$ -Dimethylnonan- ε^2 -Sulfon-C10H38O8NS säure. Sm. 66-67° (B. 37, 3261 C. 1904 [2] 1031).
- 1) Jodmethylat d. Sparteinjodammoniumessigsäuremethylester. $C_{19}H_{34}O_2N_2J_2$ Sm. 232° (Ar. 242, 518 C. 1904 [2] 1412). 2) isom. Jodmethylat d. Sparteinjodammoniumessigsäuremethyl-
- ester. Sm. 249° (Ar. 242, 518 U. 1904 [2] 1412).
- $\mathbf{C}_{19}\mathbf{H}_{45}\mathbf{N}_{3}\mathbf{JP}$ 1) Methyltri[Dipropylamido] phosphonium jodid. Sm. 83-84°(A. 326, 170 C. 1903 [1] 762).

- 19 V -

- 1) Dianil d. 4-Brombenzol-1-Carbonsäure-2-Sulfonsäure. Sm. 199 $C_{19}H_{13}O_2N_2BrS$ bis 200° (Am. 30, 495 C. 1904 [1] 370).
- 1) 4-Phenylsulfonchloramidodiphenylketon. Sm. 1140 (Soc. 85, 397 C, H, O, NCIS C. 1904 [1] 1404).
- C₁₀H₁₅O₃N₂BrS 1) s-Di[Phenylamid] d. 4-Brombenzol-1-Carbonsäure-2-Sulfonsäure. Sm. 238—239° (Am. 30, 494 C. 1904 [1] 371).
 - 2) uns-Di[Phenylamid] d. 4-Brombenzol-1-Carbonsäure-2-Sulfonsäure. Sm. noch nicht bei 300° (Am. 30, 494 C. 1904 [1] 370).
- 1) α -Phenylhydrazon α [4 Sulfophenyl]azo α [2 Chlorphenyl]methan. K (C. 1903 [2] 427). C19H15O8N4C1S
- 1) 2-Brom-4-Methylphenylmonamid d. Phosphorsäurediphenyl-C₁₉H₁₇O₃NBrP ester. Sm. 126° (A. 326, 239 C. 1903 [1] 868).
- 1) 2-Chlormethylat d. 5-Merkapto-3,4-Dimethyl-1-Phenylpyrazol-C₁₉H₁₉ON₂ClS 5-Benzoat. Sm. 72° (A. 331, 219 C. 1904 [1] 1219).
- 1) Jodäthylat d. 3,6-Dibrom-4'-Dimethylamido-4-Oxy-2,5-Di-C₁₉H₂₄ONBr₂J methyldiphenylmethan. Sm. 172-173° (A. 334, 316 C. 1904 [2] 987).

 $C_{20}H_{12}O_2$

 $C_{20}H_{12}O_{8}$

 $C_{20}H_{12}O_4$

C20H14O4

C₂₀-Gruppe.

*3) 2,2'-Binaphtyl. Sm. 187° (A. 332, 50 C. 1904 [2] 40). $\mathbf{C}_{20}\mathbf{H}_{14}$ *5) 9-Benzylidenfluoren (C. 1903 [1] 1369). *1) 2-Benzylfluoren (M. 25, 450 C. 1904 [2] 450). C20 H16 7) $\alpha \alpha \beta$ -Triphenyläthen. Sm. 67-68° (B. 37, 1431 C. 1904 [1] 1351; B. 37 1455 C. 1904 [1] 1353). 8) 1,4-Dibenzylidenbenzol (B. 37, 1468 C. 1904 [1] 1342). *1) $\alpha\alpha\beta$ -Triphenyläthan. Sm. 54°; Sd. 348-349° (B. 37, 1455 C. 1904 C20 H18 *3) 3-Methyltriphenylmethan. Sm. 61-62° (62-63°); Sd. 354° (B. 37, 1251 C. 1904 [1] 1355; B. 37, 3358 C. 1904 [2] 1126; B. 37, 3696 C. 1904 *4) 4-Methyltriphenylmethan. Sm. 71° (B. 37, 658 C. 1904 [1] 951). *5) 1,4-Dibenzylbenzol. Sm. 83—84° (B. 37, 1467 C. 1904 [1] 1342). *7) $\alpha \vartheta$ -Diphenyl- $\alpha \gamma s \eta$ -Oktatetraën. Sm. 225° u. Zers. (A. 331, 165 C. 1904 8) ααα-Triphenyläthan. Sm. 95° (B. 36, 472 C. 1903 [1] 638).
9) 2-Methyltriphenylmethan. Sm. 82—83° (B. 37, 1249 C. 1904 [1] 1355)
*1) Diphenyldibutadiën. Sd. 217—220°₁₇ (B. 36, 4325 C. 1904 [1] 453 $C_{20}H_{20}$ B. 87, 2274 C. 1904 [2] 217).

*2) Diphenylcyklooktadiën. Sd. 204—206°₁₀ (B. 36, 4322 C. 1904 [1] 453)

2) Kohlenwasserstoff (aus Cholesterylchlorid). Sd. 241—265°₄₂ (M. 24, 662) $C_{20}H_{28}$ C. 1903 [2] 1236).

- 20 II -

(B. 36, 1974 C. 1903 [2] 377).

4) Acenaphtanthrachinon. Sm. 215-220° (A. 327, 102 C. 1903 [1] 1229)

4) 2-Benzoyl-3, 4-β-Naphtopyron (a-Benzoyl-β-Naphtocumarin). Sm. 207

12) Acetat d. 11-Oxy-5,12-Naphtacenchinon (B. 36, 551 U. 1903 [1] 720)

C₂₀H₁₂O₆
5) 2², 3-Lakton d. 1-Keto-3-Methoxyl-2-[2-Oxy-1, 3-Diketo-2, 3-Dihydro-2-Indenyl]-2, 3-Dihydroinden-3-Carbonsäure. Sm. 198 (B. 35, 3962 C. 1903 [1] 33).

C₂₀H₁₂O₇
*2) Phloroglucinphtalein (B. 36, 1071 C. 1903 [1] 1181).
*5) Gallein (B. 36, 1561 C. 1903 [2] 118).

C₂₀H₁₂O₈
C₂₀H₁₂O₈
*1) Dinaphtazin (as-1,2-Naphtazin). Sm. 279° (B. 36, 4172 C. 1904 [1] 287).
*1) Dinaphtazin (as-1,2-Naphtazin). Sm. 267—268°. (2 HCl, PtCl₄) (B. 36, 4162 C. 1904 [1] 286).
*1) Ogallain (B. 36, 1561 C. 1904 [1] 286).
*1) ββ-Dinaphtylenamin (1,1'-Dinaphto-2,2'-Imin). Sm. 157° (155°) (B. 36, 36).

 $\begin{array}{c} \mathbf{C_{20}H_{13}N} \\ & *1) \begin{array}{c} \beta\beta\text{-Dinaphtylenamin} & (1,1'\text{-Dinaphto-2},2'\text{-Imin}). & \text{Sm. } 157^{\circ} (155^{\circ}) \\ & 4160 \end{array} \begin{array}{c} C. \ 1904 \ [1] \ 286; \\ Soc. \ 83, \ 273 \end{array} \begin{array}{c} C. \ 1903 \ [1] \ 588, \ 883). \\ 5) \ 1,2,2',1'\text{-Dinaphtocarbazol.} & \text{Sm. } 231^{\circ} (Soc. \ 83, \ 274 \end{array} \begin{array}{c} C. \ 1903 \ [1] \ 588, \ 883). \\ *1) \ 10\text{-Oxy-9-Phenylanthracen.} & (\text{HJ}, \ J_3), \ + \ J_2 \end{array} \begin{array}{c} (B. \ 37, \ 3342 \end{array} \begin{array}{c} C. \ 1904 \ [2] \\ 1057). \\ *2) \ 1,1'\text{-Dinaphtyläther.} & \text{Sm. } 105^{\circ} (B. \ 36, \ 2942 \end{array} \begin{array}{c} (J. \ 1903 \ [2] \ 885). \end{array}$

*2) 1,1'-Dinaphtyläther. Sm. 105° (B. 36, 2942 C. 1903 [2] 885). *5) 2-Benzoylfluoren (M. 24, 591 C. 1903 [2] 1276; M. 24, 592 C. 1903 [2] 1276; M. 25, 449 C. 1904 [2] 449).

[2] 1276; M. 25, 449 C. 1904 [2] 449).

*6) 10-0xy-9-Keto-10-Phenyl-9,10-Dihydroanthracen (C. r. 138, 125).
C. 1904 [2] 118).

17) 3,3'-Dioxy-2,2'-Binaphtyl. Sm. 216° (C. r. 138, 1618 C. 1904 [2] 338', 1618 C. 1904 [2

*15) Phenolphtalein (Soc. 85, 398).

*21) Diphenylester d. Benzol-1,2-Dicarbonsäure. Sm. 73°; Sd. 405°₇₆ (B. 35, 4091 C. 1903 [1] 75).

24) Phenylester d. 2-Benzoxylbenzol-1-Carbonsäure. Sm. 80,5-81 (G. 34 [1] 268 C. 1904 [1] 1498).

 $C_{20}H_{14}O_{5}$ 10) Verbindung (aus $\alpha\beta\gamma$ -Triketo- α -Phenylbutan). Sm. 168° (B. 36, 323) C. 1903 [2] 941).

- $C_{20}H_{14}O_5$ 11) Verbindung (aus Resorcin u. Benzil). Sm. oberh. 330° (B. 36, 3051 C. 1903 [2] 1008; B. 36, 3054 C. 1903 [2] 1009).
- C20H14O8 9) αα-Di[4-Oxy-1,2-Benzpyron-3-]äthan (Aethylidenbis-β-Oxycumarin). Sm. 165° (B. 36, 465 C. 1903 [1] 636).
 - 10) Fluoresceinsäure. Nur als Anhydrid bekannt (A. 183, 1; 215, 83; B. 29, 2629). II, 2060; *II, 1208.
 11) Dimethyldioxyäthindiphtalid. Sm. noch nicht bei 330° (B. 37, 3346)
 - C. 1904 [2] 1057).
 - 12) Dimethyldioxyisoäthindiphtalid (3,6,9,11-Tetraoxy-1,7-Dimethyl-5,12-Naphtacenchinon). Sm. noch nicht bei 330° (B. 37, 3347 C. 1904 [2]
- 9) 5,6-Diacetat d. 5,6-Dioxy-2-Keto-1-[3,4-Dioxybenzyliden]-1,2- $C_{20}H_{14}O_8$ Dihydrobenzfuran-3,4-Methylenäther (B. 29, 2435). — *III, 534.
- 4) Norcocaflavetin. Sm. 270° (J. pr. [2] 66, 416 C. 1903 [1] 528). $C_{20}H_{14}O_{9}$
- *4) 2,2'-Azonaphtalin. Sm. 208° (B. 36, 4159 C. 1904 [1] 286). C20H14N2
- C20H14S2
- 1) 1,1'-Dinaphtyldiselenid. Sm. 87-88° (Bl. [3] 29, 763 C. 1903 [2] $C_{20}H_{14}Se_2$ 621).
- C20H15N 12) 5-Benzylakridin. Sm. 173°. Pikrat (B. 37, 1565 C. 1904 [1] 1447). *9) 6-Amido - 2, 3 - Diphenyl - 1, 4-Benzdiazin. Sm. 1770 (B. 37, 2278 C20H15N3 C. 1904 [2] 434).
 - 12) 3-Phenylazo-2-Phenylindol. Sm. 166° (G. 32 [2] 462 C. 1903 [1] 839).
- 9) 2-oder-3-[α-Oxybenzyl]fluoren. Sm. 113° (M. 24, 592 C. 1903 [2] C20H18O 1276).
 - 10) 4-Kéto-3-Methyl-1-Diphenylmethylen-1,4-Dihydrobenzol. Sm. 176° (B. 36, 3562 C. 1903 [2] 1374).
- *1) α-Oxy-β-Keto-ααβ-Triphenyläthan (Phenylhenzoin). Sm. 87° (Am. 29, C,0H,6O2 597 C. 1903 [2] 196; B. 37, 2758 C. 1904 [2] 707).

 *3) Triphenylessigsäure. Sm. 264° (B. 36, 146 C. 1903 [1] 466).

 *5) Triphenylmethan-4-Carbonsäure. Sm. 162° (B. 37, 662 C. 1904 [1]

 - 952).
 - *8) Benzoat d. 4-Oxydiphenylmethan. Sm. 87° (A. 334, 373 C. 1904 2] 1050).
 - 10) Methyläther d. 9-Oxy-9-Phenylxanthen. Sm. 96-97° (B. 37, 2934
 - G. 1904 [2] 1142).
 11) Acetat d. 2-Oxy-1,4-Diphenylbenzol. Sm. 1440 (B. 36, 1409 C. 1903) 1] 1358).
 - Verbindung (aus Benzylchlorid u. Phenol). Sm. 86--87° (G. 33 [2] 458 C. 1904 [1] 654).
- *5) α -Oxytriphenylmethan-3-Carbonsäure. Sm. 166-167 $^{\circ}$ (B. 37, 3698 $C_{20}H_{16}O_{8}$ U. 1904 [2] 1501).
 - *6) a Oxythiplicantimethan 4 Carbonsäure. Sm. 200°. Ba 7 HaO $(B, 37, \dots, 1901, 351).$ Sm. 226-227° (A. 334, 140 U. 1904 [2]
- C20H16O4 20) Diphenyloktendilakton. 890).
 - 21) Dimethylester d. 2-Phenylnaphtalin-1, 2²-Dicarbonsäure. Sm. 90° (A. 335, 118 C. 1904 [2] 1132).
 22) Aethylester d. 2-[1-Oxy-2-Naphtoy1]benzol-1-Carbonsäure. Sm. 91°
 - (B. 36, 560 C. 1903 [1] 721).
- $C_{20}H_{18}O_5$ *7) Monoäthylester d. Pulvinsäure (Acthylpulvinsäure) (C. 1903 [2] 121). 11) Methyläther d. Formononetin. Sm. 156° (M. 24, 146 C. 1903 [1] 1033).
 - 12) Dibenzoylbernsteinsäureäthylesteranhydrid. Sm. 198-200° u. Zers. (A. 293, 119). — *II, 1187.
- 20) Diacetat d. 1,7-Dioxy-2,6-Dimethyl-9,10-Anthrachinon. Sm. 2150 C20H14O4 (Soc. 83, 1332 U. 1904 [1] 100).
 - 21) Triacetat d. 2,3,9-Trioxyanthracen. Sm. 163-164° (B. 36, 2938 C. 1903 [2] 886).
 - 22) Verbindung (aus αβγ-Triketo-α-Phenylbutan). Sm. 202° (B. 35, 3319 C. 1902 [2] 1110; B. 36, 3232 C. 1903 [2] 941).
- C20H1007 10) Tetramethyläther d. Tetraoxybrasanchinon. Sm. 264° (B. 38, 2205 C. 1903 [2] 382).

11) Diacetat d. Emodinmonomethyläther. Sm. 157° (Soc. 83, 133 C20H16O7 C. 1904 [1] 100). 9) Triacetat d. 2,3,7-Trioxy-9-Methylfluoron. Sm. 225—228° (B. 37 2731 C. 1904 [2] 541). C20 H16 O8 *2) 1,4-Di[Benzylidenamido] benzol. Sm. 138-140 (Soc. 85, 1176 C. 1904 C20H16N2 [2] 1215) *8) s-Di[2-Naphtyl] hydrazin. Sm. 140-141° (B. 36, 4161 C. 1904 [1] 286). 25) 2, 2'-Diamido - 1, 1'- Binaphtyl. Sm. 1910 (B. 30, 82; B. 36, 415) C. 1904 [1] 286). 26) 2,4-Di[β -Phenyläthenyl]-1,3-Diazin. Sm. 145—146° (B. 36, 338). C. 1903 [2] 1193). C20H16N4 13) 3-Phenylamido-1,5-Diphenyl-1,2,4-Triazol. Sm. 202 o (Am. 29, 80 C. 1903 [1] 523; Am. 32, 365 C. 1904 [2] 1507). 14) 1,4,5-Triphenyl-4,5-Dihydro-1,2,4-Triazol-3,5-Imid. Sm. 203 (J. pr. [2] 67, 232 C. 1903 [1] 1262). 15) 2-[2-Phenylhydrazonmethylphenyl]indazol. Sm. 191° u. Zers. (195° (C. r. 137, 983 C. 1904 [1] 176; Bl. [3] 31, 872 C. 1904 [2] 661). 1) 1,4-Di[a-Brombenzyl]benzol. Sm. 112,5° (B. 37, 1467 C. 1904 [1] C20 H18 Br2 $\mathbf{C}_{20}\mathbf{H}_{17}\mathbf{N}$ 7) 1,2-Diphenyl-3-[2-Pyridyl]-R-Trimethylen. Sm. 164°. HCl (B. 36, 118 C. 1903 [1] 469). 8) 5,7-Diphenyl-2,3-Dihydro-4-Isobenzazol (5,7-Diphenyl-2,3-Dihydropyrinden). Sm. 145—146°. HCl, Pikrat (B. 35, 3975 C. 1903 [1] 37). 2) a-Chlor-2-Methyltriphenylmethan. Sm. 136—137° (B. 37, 1250) C20 H17 C1 C. 1904 [1] 1355). 3) α-Chlor-4-Methýltriphenylmethan. Sm. 99° (B. 37, 661 C. 1904 [1] 952; B. 37, 1631 C. 1904 [1] 1649). *2) α-Oxy-P-Methyltriphenylmethan? Sm. 150° (B. 37, 991 C. 1904 [1] C20H18O 1215; B. 37, 1248 C. 1904 [1] 1354; B. 37, 3359 C. 1904 [2] 1127). *6) Methyläther d. 4-Oxytriphenylmethan. Sm. 64-65° (B. 36, 2790 C. 1903 [2] 882). 7) 4-Oxy-aaa-Triphenyläthan. Sm. 119-120° (B. 36, 2794 C. 1903 [2] 883). 8) α -Oxy- $\alpha \alpha \beta$ -Triphenyläthan. Sm. 88-89° (B. 37, 1430 C. 1904 [1] 1351; B. 37, 1455 C. 1904 [1] 1353). 9) α -Oxy-2-Methyltriphenylmethan. Sm. 98° (B. 37, 993 C. 1904 [1] 10) α -Oxy-3-Methyltriphenylmethan. (B. 37, 993 C. 1904 [1] 1215; B. 37, 1250 C. 1904 [1] 1355; B. 37, 3360 C. 1904 [2] 1126).

11) α-Oxy-4-Methyltriphenylmethan. Sm. 72—73° (74°) (B. 37, 656, 663) C. 1904 [1] 951; B. 37, 992 C. 1904 [1] 1214). 12) 4-0xy-3-Methyltriphenylmethan. Sm. 100° (B. 36, 3561 C. 1903 [2] 1374; B. 36, 3565 C. 1903 [2] 1375). 13) 4-Keto-6-Phenyl-2- $[\beta$ -Phenyläthenyl]-1,2,3,4-Tetrahydrobenzol. Sm. 105° (C. 1903 [2] 944). $\mathbf{C_{20}H_{18}O_{2}}$ *2) αβ-Dioxy-ααβ-Triphenyläthan. Sm. 168° (163—165°) (B. 36, 1577 C. 1903 [1] 1397; B. 36, 1953 C. 1903 [2] 276; B. 37, 2762 C. 1904 *8) 4-Methyläther d. α, 4-Dioxytriphenylmethan. Sm. 84° (B. 36, 2334 C. 1903 [2] 440; B. 36, 2789 C. 1903 [2] 882). 9) α , 4-Dioxy-3-Methyltriphenylmethan. Sm. 107—108°. K (B. 36, 3558 C. 1903 [2] 1374). 10) isom. α,4-Dioxy-3-Methyltriphenylmethan. Sm. 148-149° (B. 36, 3566 C. 1903 [2] 1375). $C_{20}H_{18}O_3$ 10) Anhydrid d. Phenylisocrotonsäure. Sm. 120-121° (B. 37, 2001 C. 1904 [2] 24). 11) Benzoat d. Pyroguajacin. Sm. 179° (M. 1, 599; 19, 99). — III, 645; *III. 474. $\mathbf{C}_{20}\mathbf{H}_{18}\mathbf{O}_{4}$ *12) Methylester d. 3-Keto-2-Benzoyl-1-Phenyl-R-Pentamethylen-5-Carbonsaure. Sm. 115-116° (A. 326, 349 C. 1903 [1] 1124). 13) Methylester d. 4-Oxy-5-Benzoyl-1-Phenyl-2, 3-Dihydro-R-Penten-

2-Carbonsäure. Cu (4. 326, 351 C. 1903 [1] 1124).

- C20H18O5 *10) \(\beta-\text{Tetramethyläther d. Dehydrobrasilin (T. d. Tetraoxybrasan). Sm. 1580 (B. 36, 2198 C. 1903 [2] 381). 12) γ -Benzoylmethyl- α -Phenyl- α -Buten- $\delta\delta$ -Dicarbonsäure. Sm. 163° (C. 1903 [2] 944). 13) Diphenylketoktolaktonsäure + 3H₂O. Sm. 195-197° (wasserfrei). $Ca + 2^{1}/_{2}H_{2}O$ (A. 334, 133 C. 1904 [2] 889). 14) Isodiphenylketoktolaktonsäure. Sm. 202-206°. Ca (A. 334, 138 C. 1904 [2] 890). 15) Säure (aus Diphenyloktendilakton). Sm. 170-171 (A. 334, 142 C. 1904 14) Resinotannol (aus. Feroxaloe) (Ar. 241, 350 C. 1903 [2] 726) $C_{20}H_{19}O_{6}$ 15) Tetramethyläther d. Pentaoxybrasan. Sm. 218° (B. 36, 2204 C. 1903 [2] 382). 16) Tetramethyläther d. Pentaoxyrufinden (B. 36, 2203 C. 1903 [2] 382). 17) Dibenzoat d. Dulcid. Sm. 138° (C. r. 139, 638 C. 1904 [2] 1536). 9) 3 - Acetat d. 3,6 - Dioxy - 2 - [3,4 - Dioxyphenyl] - 1,4 - Benzpyron-2³,2⁴,6-Trimethyläther. Sm. 140—141⁶ (B. 37, 780 U. 1904 [1] 1156).
 10) 3-Acetat d. 3,5,7-Trioxy-2-[4-Oxyphenyl]-1,4-Benzpyron-2⁴,5,7-Trimethyläther. Sm. 190—191⁶ (B. 37, 2098 C. 1904 [2] 121). C20H18O7 11) 3-Acetat d. 3,7,8-Trioxy-2-[2-Oxyphenyl]-1,4-Benzpyron-2,7,8-Trimethyläther. Sin. 138-139° (B. 37, 2630 C. 1904 [2] 539). 12) 3-Acetat d. 3,7,8-Trioxy-2-[3-Oxyphenyl]-1,4-Benzpyron-2,7,8-Trimethyläther. Sm. 165° (B. 37, 2633 C. 1904 [2] 540). 15) Säure (aus Citronensäure u. Benzaldehyd). Sm. 143-144°. Ag. (M. 24, C20 H18 O8 84 C. 1903 [1] 769). 7) Atranorsäure (C. 1903 [2] 120). C20 H18 O9 5) Pentamethyläther d. Galloflavin. Sm. 235-237° (M. 25, 607 C. 1904 C20 H18 O10 *5) α - Benzylimido - α - Phenylamido - α - Phenylmethan. Sm. 99—100° $C_{20}H_{18}N_2$ (Soc. 83, 327 C. 1903 [1] 581, 877). *6) a-[4-Methylphenylimido-u-Phenylamido-a-Phenylmethan. HCl, (2HCl, PtCl₄, B. 36, 23 C. 1903 [1] 510). *10) \(\beta\)-Benzyliden-\(\alpha\)-Phenyl-\(\alpha\)-Benzylhydrazin. Sm. 111° (M. 25, 594 C. 1904 [2] 1293). 22) α -Diphenylmethyl- β -Benzylidenhydrazin. Sm. 85° u. Zers. (J. pr. [2] 67, 176 C. 1903 [1] 874). 24) β -Phenylazo- β -Phenylhydrazon- α -Phenyläthan. Sm. 127° (B. 36, $\mathbf{C_{20}H_{18}N_4}$ 2486 C. 1903 [2] 490). 1) $\alpha \delta \varepsilon \vartheta$ -Tetrabrom- $\alpha \vartheta$ -Diphenyl- $\beta \zeta$ -Oktadiën. Sm. 185° (A. 331, 166 $C_{20}H_{18}Br_4$ C. 1904 [1] 1211). 1) $\alpha \beta \gamma \delta \epsilon \zeta \eta \partial - \text{Oktobrom} - \alpha \partial - \text{Diphenyloktan.}$ Sm. 248° (A. 331, 167) $C_{20}H_{18}Br_8$ C. 1904 [1] 1211). 6) 2-Methylamidotriphenylmethan. Sm. 130-132°. HCl (B. 37, 3206 $C_{20}H_{19}N$ C. 1904 [2] 1473). 7) α -[4-Isopropylphenyl]- β -[4-Chinolyl]äthen. HCl + H₂O, (2HCl, PtCl₄), (HCl, AuCl₈) (B. 36, 1671 C. 1903 [2] 49). 11) Anhydrid d. 4,4',4"-Triamido- α -Oxy-3-Methyltriphenylmethan C20H10N3 (B. 36, 4024 C. 1904 [1] 167). 1) Brombisdiphenylbutadiëndibromid. Sm. 223° u. Zers. (B. 37, 2276 $C_{20}H_{19}Br_3$ C. 1904 [2] 218). 2) Verbindung (aus Diphenellander). Sm. 213—214° (203—204°) (B. 36, 4325 C. 1904 [1] : 1; : 37, ? | C. 1904 [2] 104). $C_{20}H_{20}O_{2}$
- *2) 2-Keto-1-[γ -Keto- $\alpha\gamma$ -Diphenylarany1]-R-Pentamethylen. 78-80° (B. 35, 3973 C. 1903

*13) Diphenyloktolaktonsäure. Sm. 179°. Ca, Ba, Ag (A. 334, 120 $C_{20}H_{20}O_4$ C. 1904 [2] \$89).

30) 2³, 2⁴-Diāthylāther d. 7-Oxy-4-Methylen-2-[2, 4-Dioxyphenyl]-1,4-Benzpyran. Sm. 77-81°. HCl, (2HCl, PtCl₄), H₂SO₄ + 2H₂O, Pikrat (B. 37, 357 C. 1904 [1] 670).

31) Dibenzoat d. isom. 1,2-Dioxyhexahydrobenzol. Sm. 93,5° (C. r. 136, 385 C. 1903 [1] 711).

 $C_{20}H_{20}O_5$ *6) Diphenylketőktonsáure. Sm. 132°. Ba, Ag, (A. 334, 126 C. 1904 [2] 889).

20 II.	
$\mathbf{C_{20}H_{20}O_6}$	15) Methyläther d. Verb. C ₁₉ H ₁₈ O ₆ . Sm. 82—83° (M. 25, 882 U. 1904
	[2] 1313). 16) Oxysäure (aus Diphenylketoktolaktonsäure). Ca (A. 334, 136 C. 1904
	 [2] 889). 17) Oxysäure (aus Isodiphenylketoktolaktonsäure). Ca (A. 334, 140 C. 1904 [2] 890).
	18) γ^2 -Acetat d. γ -Keto- α -[2-Oxyphenyl]- γ -[2, 3, 4-Trioxyphenyl]-propen- α^2 , γ^3 , γ^4 -Trimethyläther. Sm. 88° (B. 37, 2629 C. 1904
	[2] 539). 19) γ^2 -Acetat d. γ -Keto- α -[3-ON::] cord'2, 3, 4-Trioxyphenyl-propen- α^3 , γ^3 , γ^4 -Trimethyläthe
	[2] 539). 20) γ^6 -Acetat d. γ -Keto- γ -[2, 4, 6-Trioxyphanyl[4-Oxyphenyl]- propen- $\alpha^4, \gamma^2, \gamma^4$ -Trimethyläther. Sm. :: 37,; C. 1904 [1]
$\mathbf{C_{20}H_{20}O_{7}}$	1158). *5) Tetramethyläther d. Hämatoxylon (T. d. Hexaoxyrufindan) (B. 36, 2203 C. 1903 [2] 382).
	8) Pentamethyläther d. Quercetin + H ₂ O. Sm. 148° (Ar. 242, 242 C. 1904 [1] 1652).
	9) Verbindung (aus Hämatoxyloutetramethyläther). Sm. 165—167° (B. 37, 632 C. 1904 [1] 955).
$\mathbf{C}_{20}\mathbf{H}_{20}\mathbf{O}_8$	6) Hexamethyläther d. 1, 2, 3, 5, 6, 7-Hexaoxy-9, 10-Anthrachinon. Sm. 245° (C. 1904 [2] 709).
$\mathbf{C}_{20}\mathbf{H}_{20}\mathbf{N}_4$	3) β -Phenylhydrazon- β -Phenylhydrazido- α -Phenyläthan. Sm. 1270 (B. 36, 2486 C. 1903 [2] 490).
	4) Phenyihydrazon d. Verb. C ₁₄ H ₁₄ ON ₂ . Sm. 227—228° (Bl. [3] 31, 452 C. 1904 [1] 1498).
$\mathbf{C_{20}H_{21}N_3}$	4) $\alpha \alpha \alpha$ -Tri[P-Amidophenyl]äthan. Sm. 191—192° (B. 36, 474 C. 1903 [1] 638).
$\mathbf{C_{20}H_{22}O_4}$	*10) Diäthylester d. $\alpha\beta$ -Diphenyläthan-2,2'-Dicarbonsäure. Sm. 71° (B. 37, 3219 C. 1904 [2] 1120).
	16) 2 ² ,2 ⁴ -Diathylather d. 7-Oxy-4-Methyl-2-[2,4-Dioxyphenyl]-1,4-Benzpyran. Sm. 125—147° (B. 37, 361 C. 1904 [1] 671).
	17) Diäthylester d. $\alpha\beta$ -Diphenyläthan-4,4'-Dicarbonsäure. Sm. 100" (B. 37, 3216 C. 1904 [2] 1120).
	18) Diphenylester d. para-Hexan- $\gamma \delta$ -Dicarbonsäure. Sm. 107—108° (B. 35, 4083 C. 1903 [1] 74).
	19) Di[2,4-Dimethylphenylester] d. Bernsteinsäure. Sm. 70° (B. 35, 4080 C. 1903 [1] 74).
	20) Di[2, 5-Dimethylphenylester] d. Bernsteinsäure. Sm. 81° (B. 35, 4081 C. 1903 [1] 74).
	21) Di[3,4-Dimethylphenylester] d. Bernsteinsäure. Sm. 110° (B. 35, 4080 C. 1903 [1] 74).
	22) Dibenzoat d. "5-Dioxyhexan. Sm. 56° (C. r. 136, 245 C. 1903 [1] 583).
$\mathbf{C}_{20}\mathbf{H}_{22}\mathbf{O}_{5}$	*9) Oxysäure (aus Diphenyloktolaktonsäure). Ba, Ag ₂ (A. 334, 123 C. 1904 [2] 889).
$\mathbf{C}_{20}\mathbf{H}_{22}\mathbf{O}_{6}$	*5) Tetramethyläther d. Hämatoxylin. Sm. 142° (B. 36, 2202 C. 1903 [2] 382).
	15) Dibenzyliden-l-Sorbit. Sm. 1600 (R. 19, 8). — *III, 6. 16) 4,4'-Diacetat d. 46-Diacyt-gel-Did Correction (R. 19, 8). — *III, 6.
	17) 4,4'-Diacetat d. isom (R-Dioxxx & Dick)
	18) Verbindung (aus Dihydroflavaspidsäurexanthen). Sm. 213 — 215 °. + Aceton (A. 329, 314 C. 1904 [11 709)
$egin{array}{c} \mathbf{C_{20}H_{22}O_8} \ \mathbf{C_{20}H_{22}O_{10}} \end{array}$	*2) Populin (C. 1904 [2] 1405). *1) Erythrin + H ₂ O. Sm. 137° (Bl. [3] 31, 611 C. 1904 [2] 99; Bl. [3] 31, 1098).
$C_{20}H_{24}O_4$	9) Aethylester d. Benzovicamphogenhouse
$\mathbf{C}_{20}\mathbf{H}_{24}\mathbf{O}_7$	bis 218,5° ₁₄ (B. 35, 4039 C. 1903 [1] 82). 2) Olivil. Sm. 142,5° (C. 1903 [1] 920). 3) Isoolivil (C. 1903 [1] 921).
	, σεν [-] σαν/ν

 $C_{20}H_{24}N_{2}$ *2) Di[2,4,6-Trimethylbenzyliden]hydrazin. Sm. 167 (C. 1903 [1] 141). *4) $\alpha\beta$ -Di[1, 2, 3, 4-Tetrahydro-2-Isochinolyl] \(\text{ithan.}\) Sm. 95—96° (B. 36, 1167 C. 1903 [1] 1187; B. 36, 3800 C. 1904 [1] 21). 5) γ -Phenylhydrazon - α -[4-Isopropylphenyl] - α -Penten. Sm. 87,5° (A. 330, 258 C. 1904 [1] 946).
(b) γ-Phenylhydrazon-α-[4-Isopropylphenyl]-β-Methyl-α-Buten. Sm. 106,5° (A. 330, 261 C. 1904 [1] 947).
(c) γ-Di[1,2,3,4-Tetrahydro-1-Chinolyl]äthan. Sm. 146—147° (B. 36, 2700 C. 1904 [1] 21). 3799 *Ö*. **1904** [1] 21). 4) Dihydrobidurochinon (B. 29, 2184). — *III, 273.
 C 60,0 — H 6,6 — O 32,5 — M. G. 394. C20H26O4 $C_{20}H_{26}O_8$ 1) Tetraacetat d. 2,3,5,6-Tetraoxy-1,4-Diisopropylbenzol. Sm. 2450 (B. 37, 2390 C. 1904 [2] 308). 2) Diäthylester d. Glyko-o-Cumarincarbonsäure. Sm. 1520 (C. 1903 C20 H26 O10 [1] 89). *3) (47-Di[2,4-Dimethylphenylamido]-a-Buten (A. 329, 223 C. 1903 [2] 1428). $C_{20}H_{26}N_2$ 8) γ-Phenylhydrazon-α-[4-Isopropylphenyl]pentan. Sm. 135° (A. 330, 260 C. **1904** [1] 947). 9) α -[2,4,6-Trimethylbenzyl]- β -[2,4,6-Trimethylbenzyliden]hydrazin. Sm. 88-89° (C. 1903 [1] 142). 9) 3,8-Di[Diäthylamido]diphenazin. Sm. 184° (B. 37, 34 C. 1904 [1] $C_{20}H_{26}N_4$ *1) Dicamphochinon (B. 37, 1569 C. 1904 [1] 1442).
*2) ββ-Dicamphanhexan-1, 4-dion (Dicamphendion). Sm. 192-193° (D.R.P. 94498; B. 36, 2610 C. 1903 [2] 623).
5) Dicamphenhexadiënperoxyd. Sm. 155-156° (G. 27 [1] 180). — C20H28O2 *III, *369.* 4) Laricopinonsäure. Sm. 97°. K, Ba, Pb, Ag (Ar. 241, 576 C. 1904 $C_{20}H_{28}O_4$ [1] 166). 4) Methylester d. Diacetylsantolsäure. Sm. 151° (B. 37, 260 C. 1904 C20H28O6 [1] 643). C 60,6 — H 7,1 — O 32,3 — M. G. 396. U 00,0 — H 7,1 — U 32,3 — M. G. 396.

1) Ciliansäure. Sm. 242°. Ba₃ (M. 24, 57 C. 1903 [1] 766).

*1) Amygdalinsäure (B. 35, 4161 C. 1903 [1] 124).

*1) 4,4'-Di[Diāthylamido]biphenyl. Sm. 86° (B. 37, 33 C. 1904 [1] 524).

4) Abietoresen. Sm. 168—169° (C. 1900 [2] 862). — *III, 426.

5) Verbindung (aus d. Aldehyd d. Camphenilansäure). Sm. 72° (H. 37, 198 C. 1903 [1] 595).

*1) \$\beta\$6-Dicampher. Sm. 163—1640 (B. 28, 2011 (C. 1902 (C. 1902)). $C_{20}H_{28}O_{8}$ C20H28O13 $\mathbf{C}_{20}\mathbf{H}_{28}\mathbf{N}_{2}$ C20 H30 O *1) $\beta\beta$ -Dicampher. Sm. 163—164° (B. 36, 2611 C. 1903 [2] 623). $C_{20}H_{80}O_{2}$ *14) Metacopaïvasäure (Gurjuturboresinol) (Ar. 241, 390 C. 1903 [2] 724).
*15) d-Pimarsäure (Soc. 85, 1242 C. 1904 [2] 1308).
27) Isodicampher. Sm. 90—95°? (G. 27 [1] 167). — *III, 370.
28) Beljiabietinsäure. Sm. 153—154°. K, Pb, Ag (Ar. 240, 589 C. 1903 [1] 164). 29) Palabietinsäure. Sm. 153-154°. K, Pb, Ag (Ar. 240, 578 C. 1903 [1] 163). Verbindung (aus Erythroxylonmonogynum Roxb.). Sm. 117—118° (C. 1904 [1] 1265). C20H32O *4) Dicampherpinakon. Sm. 151° (B. 36, 2625 C. 1903 [2] 624).
9) Lepranthasäure. Sm. 111—112° (A. 336, 51 C. 1904 [2] 1325). C20H32O2 10) Verbindung (aus Campher). Sm. 160° (B. 35, 3912 C. 1903 [1] 29; B. 36, 2632 C. 1903 [2] 626). 11) Verbindung (aus Ficus elastica). Sm. 195° (B. 37, 3847 C. 1904 [2] 10) Acetat-Methyläthylakrylat d. Glykol $C_{12}H_{22}O_2$. Sd. 225—232 $^{\circ}_{11}$ C20 H32 O4 (M. 24, 162 C. 1903 [1] 957). 2) Digitsäure (siehe auch $C_{10}H_{16}O_4$). KH (B. 37, 1217 C. 1904 [1] 1363). C 51,7 — H 6,9 — O 41,4 — M. G. 464. $C_{20}H_{92}O_{8}$ $C_{20}H_{32}O_{12}$ 1) Verbindung (aus Kautschuk) oder $C_{80}H_{48}O_{18}$ (B. 37, 2709 C. 1904 [2] 528).

12) Verbindung (aus Kô-San-Samen). Sm. 130—133° (C. 1903 [2] 893).

12) Verbindung (aus Asclepias syriaca L.) (J. pr. [2] 68, 406 C. 1904 [1] 105).

3) Monomenthylester d. Camphersäure. Zers. bei 310°. Na (C. 1903 [1] 162; B. 37, 1381 C. 1904 [1] 1442). $C_{20}H_{34}O$ $C_{20}H_{84}O_{2}$ $C_{20}H_{34}O_4$

 Bisabelendihydrochlorid. Sm. 79,3° (Ar. 235, 296). — *III, 404.
 Dibornyldisulfid. Sm. 175—176° (B. 36, 867 C. 1903 [1] 972).
 Cyklogallipharol. Sm. 46° (Ar. 242, 274 C. 1904 [1] 1654).
 Aethylester d. Chaulmoograsäure. Sd. 230°₂₀ (Soc. 85, 854 C. 1904 $C_{20}H_{84}Cl_{2}$ C₂₀H₃,S₂ C₂₀H₃₆O C,0H,00 [2] 348, 604). 3) isom. Ketoacetoxylstearinsäure. Fl. (B. 36, 2659 C. 1903 [2] 826).
5) Aethylester d. α-Heptadeken-α-Carbonsäure. Sm. 15°; Sd. oberli. 300° (G. 34 [2] 84 C. 1904 [2] 694).
*3) Aethylester d. Ricinolsäure. Sd. 258°₁₃ (B. 36, 784 C. 1903 [1] 823).
*7) Verbindung (aus Isovaleraldehyd). Sd. 260—290° (B. 36, 2063) C20H36O5 C,0H,30, CooHooOo C. 1903 [2] 357). *1) Arachinsăure (M. 23, 940 C. 1903 [1] 297).
*3) Aethylester d. Stearinsăure. Sd. 139 $^{\circ}_{0}$ (B. 36, 4340 C. 1904 [1] 433).
8) Aethylester d. λ -Isostearinsăure. Fl. (Ar. 241, 19 C. 1903 [1] 698).
9) Verbindung (aus d. Glykol $C_{10}H_{22}O_{2}$). Sd. 267 $^{\circ}$ u. Zers. (M. 24, 584 $C_{90}H_{40}O_{2}$

C. 1903 [2] 870).

 Aethylester d. α-Oxyheptadekan-α-Carbonsäure. Sm. 62—63°
 (Soc. 85, 831 C. 1904 [2] 509). $C_{20}H_{40}O_3$

- 20 III -

 Tetrachlorfluoran (aus 3, 4-Dichlor-1-Oxybenzol).
 (D.R.P. 156333 G. 1904 [2] 1673). Sm. 284-285° ConH8OaCl4 2) isom. Tetrachlorfluoran (Dichlorfluoresceinchlorid). Sm. 257° (D.R.P.

49057). — *II, 1209.

1) Tetrachlordioxyfluorescein. Ca, Ba, HCl (B. 36, 1076 C. 1903 [1] CanHaO,Cla 1182).

C₂₀H₈O₇Br₄ 1) Tetrabromdioxyfluorescein (B. 36, 1083 C. 1903 [1] 1183).

2) Tetrabromphloroglucinphtalein (B. 36, 1073 C. 1903 [1] 1181). 1) Chinoxalin (aus Phenanthrenchinon u. 3,4,5-Tribrom-1,2-Diamidobenzol). CooHoNoBr. Sm. noch nicht bei 250° (Am. 30, 79 C. 1903 [2] 356).

 $C_{20}H_{10}OS_2$ 1) Verbindung (aus Phenanthrenchinon u. Tiophten) (B. 37, 3352 C. 1904 [2] 1058).

C₂₀H₁₀O₃Cl₂ *1) Dichlorfiuoran (aus 3-Chlor-1-Oxybenzol). Sm. 252° (D.R.P. 156333 C. 1904 [2] 1673).
C 64,9 — H 2,7 — O 17,3 — N 15,1 — M. G. 370.
1) 2,7-Dinitrophenanthrophenazin. Sm. 356° (B. 36, 3740 C. 1904) C20H10O4N4

[1] 37).

2) 4,5-Dinitrophenanthrophenazin. Sm. 262-264° (B. 36, 3748 C. 1904) [1] 38).

*1) Tetrajodphenolphtalein (D.R.P. 143596 C. 1903 [2] 403).
1) Dichlordioxyfluorescein. Ba (B. 36, 1080 C. 1903 [1] 1182).
2) isom. Dibromdioxyfluorescein (B. 36, 1081 C. 1903 [1] 1182). $\begin{array}{l} \mathbf{C_{20}H_{10}O_4J_4} \\ \mathbf{C_{20}H_{10}O_7Cl_2} \\ \mathbf{C_{20}H_{10}O_7Br_2} \end{array}$

3) 2,7-Dibromphenanthrophenazin (aus 2,7-Dibrom-9,10-Phenanthren- $\mathbf{C}_{20}\mathbf{H}_{10}\mathbf{N}_{2}\mathbf{Br}_{2}$ chinon). Sm. 294—295° (B. 37, 3570 C. 1904 [2] 1402).
3) 4-Nitrophenanthrophenazin. Sm. 217—218° (B. 36, 3736 C. 1904

 $C_{20}H_{11}O_{2}N_{3}$ [1] 36).

2) 4,5-Imid d. 1-Benzoylnaphtalin-12,4,5-Tricarbonsaure. Sm. oberh. C20 H11 O5 N

300° (A. 327, 101 C. 1903 [1] 1229).

1) 2',3-Lakton d. 1-Keto-3-Methoxyl-2-[2-Brom-2-Oxy-1,3-Diketo-2,3-Dihydro-2-Indenyl]-2,3-Dihydroinden-3-Carbonsäure. Sm. 198° C20H11O8Br (B. 35, 3964 C. 1903 [1] 33). C 63,7 — H 2,9 — O 29,7 — N 3,7 — M. G. 377. 1) β -Nitrofluoresceïn (D. R. P. 139428 C. 1903 [1] 679). C20H11O7N

Phenazin (aus 9,10-Phenanthrenchinon u. 4-Chlor-1,2-Diamidobenzol). Sm. 246° (B. 36, 4028 C. 1904 [1] 294). C20H11N2Cl

C₂₀H₁₁N₂Br 1) 2-Bromphenanthrophenazin (aus 2-Brom-9,10-Phenanthrenchinon). Sm. 252-254° (B. 37, 3560 C. 1904 [2] 1401). 2) 3-Bromphenanthrophenazin (aus 3-Brom-9,10-Phenanthrenchinon). Sm. 249° (B. 37, 3572 C. 1904 [2] 1403). C₂₀H₁₁N₂Br₈ 1) 5,6,7-Tribrom-2,3-Diphenyl-1,4-Benzdiazin (Am. 30, 79 C. 1903

[2] 356).
6) 1,1'-Dinaphto-2,2'-Orthodiazinoxyd. Sm. 247—248° u. Zers. (B. 36, $C_{20}H_{12}ON_{2}$ 4164 O. 1904 [1] 286; B. 36, 4173 C. 1904 [1] 287).

- C20H12O8N2 3) 2-[4-Oxyphenylazo]-9,10-Anthrachinon. Sm. oberh. 290° u. Zers. (C. 1904 [1] 289).
- C20H12O4N2 3) 2-[2,4-Dioxyphenylazo]-9,10-Anthrachinon. Sm. 261—263 ° u. Zers. (C. 1904 [1] 289). C 51,7 — H 2,6 — O 27,6 — N 18,1 — M. G. 464. $C_{20}H_{12}O_8N_6$
- 1) 1,4-Di[2,4-Dinitrobenzylidenamido] benzol. Sm. 2520 (B. 37, 1871 C. 1904 [1] 1601).
- 2) 2,2'-Diphenylbenzbithiazol (Dibenzenyl-2,5-Disulfhydro-p-Diamidobenzol).
 Sm. 232—234° (Soc. 83, 1207 C. 1903 [2] 1328). C20H12N2S
- 1) 1,3,5-Tri[4-Chlorphenyl]-1,2,4-Triazol? Sm. 168—170° (J. pr. [2] 67, 500 C. 1903 [2] 251). C20H12N3Cl3
- 3) Di[4-Chlor-1-Naphtyl]disulfid. Sm. 121—122° (C. r. 138, 982 C. 1904 $C_{20}H_{12}Cl_2S_2$ [1] [1413).
- 1) Di[4-Brom-l-Naphtyl]disulfid. Sm. 131-1320 (C. r. 138, 982 C. 1904 $C_{20}H_{12}Br_2S_2$ [1] 1413).
- 1) 9-Chlor-10-Keto-9-Phenyl-9,10-Dihydroanthracen. Sm. 164° (168 C20H18OCl bis 169°) (Bl. [3] 17, 876; B. 37, 3338 C. 1904 [2] 1056). — *III, 199. 1) 9-Brom-10-Keto-9-Phenyl-9,10-Dihydroanthracen. Sm. 145—147°
- $C_{20}H_{13}OBr$
- (B. 37, 3338 C. 1904 [2] 1056). *7) 5-Phenylakridin-5²-Carbonsäure. Sm. 347° u. Zers. (B. 37, 1006 $C_{20}H_{13}O_{2}N$ C. 1904 [1] 1276).
- 11) a'-Phenylpyrophtalon. Sm. 263° (B. 36, 3919 C. 1904 [1] 98).
- 7) Benzoat d. 5-Oxy-l-Phenylbenzoxazol. Sm. 118,5° (B. 35, 4201 $C_{20}H_{13}O_{3}N$ C. 1903 [1] 146).
 - 8) Benzoat d. 3-Oxy-5-Keto-5,10-Dihydroakridin. Sm. 265° (C. 1904) [2] 720).
- $\mathbf{C}_{20}\mathbf{H}_{13}\mathbf{O_4N}$ 5) 4 - Phenylamido - 1,3 - Dioxy - 9,10 - Anthrachinon (D.R.P. 145239 C. 1903 [2] 1100).
- 6) 2 Phenylamido 1,4 Dioxy-9,10 Anthrachinon. Sm. 255-2560 (D.R.P. 86150; D.R.P. 114199 O. 1900 [2] 884). - *III, 305.
- 3) 3-Nitro-4,4'-Biphenylenamid d. Benzol-1,2-Dicarbonsaure. $C_{20}H_{13}O_4N_8$
- 225° (B. 37, 2882 C. 1904 [2] 594).

 2) 1-Phenyl-3, 4-Di[3-Nitrophenyl]-1, 2, 5-Triazol? Sm. 174—175° (B. 36, 97 C. 1908 [1] 453).

 C 69,2 H 3,7 O 23,1 N 4,0 M. G. 347. C20H18O4N5 $C_{20}H_{13}O_5N$
 - 1) α-Oxim d. Hydrochinonphtalein. Sm. 268-269 (B. 36, 2962 C. 1903 [2] 1006).
 - β -Oxim d. Hydrochinonphtale + 5 H₂O (B. 36, 2963 C. 1903
- 3) y-Oxim d. Hydrochinonphtaleïn (B. 36, 2963 C. 1903 [2] 1007). *2) Dibenzoat d. 4-Nitro-1,3-Dioxybenzol. Sm. 1090 (d. 330, 106 $C_{20}H_{13}O_6N$ C. 1904 [1] 1076).
- C20 H13 O8 N5 C 53,2 -- H 2,9 - O 28,4 - N 15,5 - M. G. 451.
 - Di[3-Nitrophenylamid] d. 3-Nitrobenzol-1, 2-Dicarbonsäure. Sm. 225 bis 230° u. Zers. (C. 1903 [2] 431).
 Di[4-Nitrophenylamid] d. 3-Nitrobenzol-1, 2-Dicarbonsäure. Sm. 197 bis 2000 u. Zers. (C. 1903 [2] 431).
- C20H13N3Br2 2) 4,4'-Dibrom-l'-Amido-l,2'-Azonaphtalin. Sm. 181-1820 (Soc. 85, 751 C. 1904 [2] 448).
- C₂₀H₁₄ON₂ *11) 6-Oxy-2,3-Diphenyl-1,4-Benzdiazin. Sm. 251-252° (B. 37, 2280 C. 1904 [2] 434).
 - 13) isom. P-Nitroso-1,1'-Dinaphtylamin. Sm. 1430 (B. 36, 4138 C. 1904 [1] 185).
 - 14) 2,2'-Azoxynaphtalin. Sm. 167-168° (B. 36, 4163 C. 1904 [1] 286; B. 36, 4173 C. 1904 [1] 288).
 - 15) α'-Phenylpyrophtalin. Sm. oberh. 307° (B. 36, 3922 C. 1904 [1] 98).
 - 16) Verbindung (aus Isopyrophtalon u. Anilin). Sm. 1850 (B. 36, 1662 C. 1903 [2] 40).
- C₂₀H₁₄O₂N₂ 18) 4,4'-Biphenylenamid d. Benzol-1,2-Dicarbonsäure. Sm. oberh. 300° (B. 37, 2882 C. 1904 [2] 594).
- $C_{20}H_{14}O_4N_2$ 7) Phenyl-3-Nitrobenzoylamid d. Benzolcarbonsäure. Sm. 139 (Am. 30, 37 C. 1903 [2] 363).
- 9) 1,4-Di[2-Nitrobenzylidenamido]benzol. Sm. 208° (B. 37, 1871 C20H14O4N4 C. 1904 [1] 1601).

 $C_{20}H_{14}O_4N_4$ 10) Benzoat d. α -Oximido- α -Phenylazo- α -[3-Nitrophenyl]methan. Zers.

1) Dimethylester d. 1,3-Dichlor-1,3-Di[2,4-Dichlorphenyl]-R-Tetra-

methylen-2,4-Dicarbonsäure. Sm. 215° (B. 37, 220 C. 1904 [1] 588).

2) Dimethylester d. isom. 1,3-Dichlor-1,3-Di[2,4-Dichlorphenyl]-R-Tetramethylen-2,4-Dicarbonsäure (D. d. Hexachlor-γ-Truxillsäure).

bei 145° (B. 36, 73 C. 1903 [1] 452).

 $C_{20}H_{14}O_4Cl_6$

 $C_{20}H_{15}O_4N$

C20H15O4N8

 $C_{20}H_{15}O_{4}Cl_{5}$

C20H15O5N8

C20 H15 O6 N3

7. **1903** [2] 206).

[1] 638).

(B. 36, 119 C. 1903 [1] 469).

Sm. 140° (B. 37, 2883 C. 1901 :: ...

C 61,1 — H 3,8 — O 24,4 — N 10,7 — M. G. 393.

Sm. 180—182° (B. 37, 223 C. 1904 [1] 588). 2) Verbindung (aus 1,3-Dinitrobenzol u. Aceton) (B. 37, 836 C. 1904 C20 H14 O5 N4 [1] 1201).
1) 1-[2-Chlorphenyl]-3,5-Diphenyl-1,2,4-Triazol. Sm. 108° (J. pr. [2]) $C_{20}H_{14}N_3Cl$ 67, 493 C. 1903 [2] 251). 2) 1-[3-Chlorphenyl]-3,5-Diphenyl-1,2,4-Triazol. Sm. 107-109 (J. pr. [2] 67, 495 C. 1903 [2] 251). 3) 1-[4-Chlorphenyl]-3,5-Diphenyl-1,2,4-Triazol. Sm. 119 (J. pr. [2] 67, 499 C. 1903 [2] 251). 15) 4-Nitroso-1,3-Dibenzylidenamidobenzol. Sm. 240° u. Zers. (B. 37, $C_{90}H_{15}ON_{8}$ 2280 C. 1904 [2] 434). 16) Phenylhydrazon d. Isopyrophtalon + 2H₂O. Sm. 127° (B. 36, 1662) C. 1903 [2] 40). 17) 5-Keto-1, 3, 4-Triphenyl-4, 5-Dihydro-1, 2, 4-Triazol. Sm. 215-216 (217-218°) (B. 36, 1360 C. 1903 [1] 1340; Am. 31, 584 C. 1904 ì21 109). *1) 2-Benzoylamidodiphenylketon (C. 1903 [1] 924). $C_{20}H_{15}O_{2}N$ *2) 4-Benzoylamidodiphenylketon (C. 1903 [1] 924). *9) Phenylimid d. Benzolcarbonsäure. Sm. 1646 (U. 1903 [1] 924; C. r. 137, 713 C. 1903 [2] 1428). 13) o,p-Dimethylchinophtalon. Sm. 290° (B. 37, 3017 C. 1904 [2] 1409). 14) o,p-Dimethylisochinophtalon. Sm. 231° (B. 37, 3017 C. 1904 [2] $C_{20}H_{15}O_{2}N$ 1409). 15) Benzoat d. 4 - Benzylidenamido - 1 - Oxybenzol. Sm. 148° (B. 36, 4152 C. 1904 [1] 187). 16) Benzoat d. β -Oxy- α -Phenyl- β -[2-Pyridyl]äthen. Sm. 90—91°. HCl, Pikrat (B. 36, 124 C. 1903 [1] 470). 9) 3-Phenylimidomethylazobenzol-3'-Carbonsäure. Sm. 128° (B. 36, $C_{20}H_{15}O_2N_3$ 3474 C. 1903 [2] 1270). 10) Benzoat d. α -Oximido- α -Phenylazo- α -Phenylmethan. Sin. 126 bis 126,5° (B. 36, 65 C. 1903 [1] 451). *1) Di[l-Naphtyl]phosphinsäure. Sm. 220° (C. r. 139, 675 C. 1904 [2] $C_{20}H_{15}O_{2}P$ 1638). *5) Benzoat d. 2-Benzoylamido-1-Oxybenzol. Sm. 183-184,50 (B. 36, $C_{20}H_{15}O_3N$ 2051 C. 1903 2; 353,. *7) Benzoat d. 4-Benzoylamido-l-Oxybenzol. Sm. 231 ° (B. 37, 3941 C. 1904 [2] 1597). 16) 1-Benzoat d. 4-Hydroxylamido-1-Oxybenzol-4-Benzylidenäther. Sm. 205° (B. 36, 4151 C. 1904 [1] 187). 17) Phenylamid d. 2-Benzoxylbenzol-1-Carbonsäure. Sm. 180° (G. 34 1] 271 C. 1904 [1] 1499). $C_{20}H_{15}O_{8}N_{8}$ 9) Phenylamid d. 4 Barrayy phenylamisensäure. Sm. 168-1690 u. Zers. (A. 334, 1901 2

7) Diacetat d. Dihydronaphtophenoxazon. Sm. 2060 (B. 36, 1809)

6) P-Dinitro-1, 2-Diphenyl-3-[2-Pyridyl]-R-Trimethylen. Sm. 1120

7) Di[Phenylamid] d. 3-Nitrobenzol-1, 2-Dicarbonsäure. Sm. 211 bis 212° u. Zers. (C. 1903 [2] 431; B. 37, 2610 C. 1904 [2] 522).
 1) Dimethylester d. 1-Chlor-1, 3-Di[2, 4-Dichlorphenyl'-R-Tetra-

methylen - 2, 4 - Dicarbonsäure. Sm. 170° (B. 37, 222 C. 1904 [1] 588).

5) 3'- Nitro - 4'- Amido - 4 - Benzovlamidabinhanul - 4² - Carbonsäure.

1) ααα-Tri[P-Nitrophenyl]äthan. Sm. 200-202° (B. 36, 474 C. 1903

- C 56,9 H 3,6 O 22,8 N 16,6 M. G. 421. $C_{20}H_{15}O_6N_5$ 1) α -Phenyl- α -Benzyl- β -[2,4,6-Trinitrobenzyliden]hydrazin. Sm. 161° (B. **36**, 961 C. **1903** [1] 969).
- 1) Benzyläther d. 5-Selenoakridin. Sm. 110°. (2HCl, PtCl,), Pikrat $C_{20}H_{15}NSe$ (J. pr. [2] 68, 90 C. 1903 [2] 446). *2) 1,4,5-Triphenyl-4,5-Dihydro-1,2,4-Triazol-3,5-Sulfid. Sm. 314
- $C_{20}H_{15}N_3S$ bis 315° (\tilde{J} . pr. [2] 67, 219 C. 1903 [1] 1260).
- 1) 3-[3-Chlorphenyl]amido-1,5-Diphenyl-1,2,4-Triazol. $C_{20}H_{15}N_4Cl$ Sm. 195 bis 196° (Am. 32, 366 C. 1904 [2] 1507).
- 11) α Imido α Phenylbenzoylamido α Phenylmethan. Sm. 95—97° $C_{20}H_{10}ON_2$ (C. 1903 [2] 831).
 - 12) 2-[α-Phenylhydrazonäthyl]-β-Naphtofuran. Sm. 189° (B. 36, 2867) C. 1903 [2] 832).
 - 13) N-Methyl-o-Methylchinophtalin. Sm. 205° (B. 36, 3919 C. 1904
- C20H10OS 1) Dimethyläther d. 3,5-Dimerkapto-4-Thiocarbonyl-1-Keto-2,6-Diphenyl-1,4-Dihydrobenzol. Sm. 167° (B. 37, 1607 C. 1904 [1] 1444).
- C₂₀H₁₆O₂N₂*28) Di[Phenylamid] d. Benzol-1,2-Dicarbonsaure. Sm. 245-250° u.
 - 2ers. (Am. 26, 456; R. 21, 339 C. 1903 [1] 156).

 34) Benzoat d. α-Phenyl-β-[2-Oxybenzyliden]hydrazin. Sm. 148—149° (B. 37, 3938 C. 1904 [2] 1596).

 35) Benzoat d. α-Phenyl-β-[4-Oxybenzyliden]hydrazin. Sm. 176—177° (B. 37, 3939 C. 1904 [2] 1597).
- C20H16O2N4 7) 3,4-Methylenäther d. α -Phenylhydrazon- α -Phenylazo- α -[3,4-Dioxyphenyl]methan. Sm. 156° (C. 1903 [2] 427).
 - 8) trans- γ -Phenylhydrazon- α -[2-Nitrophenyl]- γ -[2-Pyridyl]propen. Sm. 137° (B. 35, 4066 C. 1903 [1] 92).
 3) Dibenzyläther d. 2,5-Dimerkapto-1,4-Benzochinon. Sm. 223 bis
- $C_{20}H_{16}O_2S_2$ 224° (A. 336, 152 C. 1904 [2] 1300).
- $C_{20}H_{16}O_3N_2$ 11) 3,4-Di[Benzoylamido]-1-Oxybenzol. Sm. 203—205° (B. 36, 4126) C. 1904 [1] 273).
- *6) Cotoïnazobenzol. Sm. 183—184° (4. 329, 278 C. 1904 [1] 795). 19) Diacetylbiindoxyl (C. 1903 [1] 35). $C_{20}H_{16}O_4N_2$
- $C_{20}H_{16}O_4N_4$ 3) pp'-Di[Acetylamido|indigo (M. 24, 10 C. 1903 [1] 775).
 - 4) 2, 6-Diphenylazo-3, 5-Dioxy-1-Methylbenzol-4-Carbonsaure (B. 37, 1413 C. 1904 [1] 1417.
 6) Diacetylisatid. Sm. 198° (B. 37, 945 C. 1904 [1] 1217).
 2) α-Rhodan-4-Amidotriphenylmethan. HCl (B. 37, 602 C. 1904)
- C20H16O6N2 $\mathbf{C}_{20}\mathbf{H}_{16}\mathbf{N}_{2}\mathbf{S}$
- C20H18N4S 4) 4-Phenylamido-1,5-Diphenyl-4,5-Dihydro-1,2,4-Triazol-3,5-Di-
- sulfid. Sm. 132° (*J. pr.* [2] 67, 236 *C.* 1903 [1] 1262).

 *6) Methyloxydhydrat d. 5-Phenylakridin. Sm. 140°. Methylsulfat, 4-Methylbenzolsulfonat (*A.* 327, 118, 122 *C.* 1903 [1] 1214, 1221; *C.* 1904 C20H17ON
- [2] 995)
 - *11) Phenylbenzylamid d. Benzolcarbonsäure (B. 37, 2816 C. 1904 [2] 649).
 - *15) 5-Oxy-10-Methyl-5-Phenyl-5,10-Dihydroakridin. Pikrat (B. 37, 576 C. 1904 [1] 897).
 - 19) 4-Methylphenylamidodiphenylketon. Sm. 82° (D.R.P. 41751). *III. 147.
 - 20) Verbindung (aus α'- Phenylpyrophtalon). Sm. 135° (B. 36, 3921 U. 1904 [1] 98).
- 10) α -Benzylidenamido- $\alpha\beta$ -Diphenylharnstoff. Sm. 173° (B. 36, 1360 $C_{20}H_{17}ON_3$ C. 1903 [1] 1340).
 - 11) α -Diphenylmethylenamido- β -Phenylharnstoff. Sm. 163° (B. 37, 3181 C. 1904 [2] 991).
 - 12) α -Nitroso- α -Diphenylmethyl- β -Benzylidenhydrazin. Sm. 96° u. Zers.
- (*J. pr.* [2] 67, 164 *U.* 1903 [1] 873).

 13) Diphenylmethylenhydrazid d. 2 Amidobenzol 1 Carbonsäure. Sm. 157° (*J. pr.* [2] 69, 99 *U.* 1904 [1] 730).

 4) α-Phenylazomethylenamido-αβ-Diphenylharnstoff (Carbanilidoform-C₂₀H₁₇ON₅
 - azylwasserstoff). Sm. 178° u. Zers. (B. 36, 1364 C. 1903 [1] 1341). 5) Benzylidenhydrazid d. 6-Benzylidenhydrazidopyridin-3-Carbon-säure. Sm. 313° (B. 36, 1112 U. 1903 [1] 1184).

 $C_{20}H_{17}OCl$

 $C_{20}H_{17}O_{2}N$

 $C_{20}H_{18}O_{8}N_{4}$

C20 H18 O4 N8

Zers. oberh. 230° (B. 36, 3676 C. 1903 [2] 1442).

(G. 33 [1] 30 C. 1903 [1] 926).

1) Methyläther d. α-Chlor-4-Oxytriphenylmethan. Sm. 122-1230 (124°) (B. 36, 2335 C. 1903 [2] 441; \bar{B} . 36, 2789 C. 1903 [2] 882). 14) 2-Acetyl-1-Phenyl-1,3-Dihydro-4,2-β-Naphtisoxazin. Sm. 142°

15) Verbindung (aus Acetophenon, Benzoylchlorid u. Pyridin). Sm. 110°;

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C_{20}H_{17}O_{2}N_{3}~15)~\alpha\text{-Nitroso-}\alpha\text{-Diphenylmethyl-}\beta\text{-[2-Oxybenzyliden]}~hydrazin.~Sm.~100^{\circ}
                              u. Zers. (J. pr. [2] 67, 164 C. 1903 [1] 873).
16) Benzoat d. 4-Oxy-1-[2-Methylphenylamido]diazobenzol. Sm. 131
                                      bis 132° (B. 36, 4148 C. 1904 [1] 180).
                              17) Benzoat d. 4-Oxy-1-[4-Methylphenylamido]diazobenzol. Sm. 148,50
                                      (B. 36, 4147 C. 1904 [1] 186).
                             *2) Rubazonsäure. Sm. 181° (C. r. 139, 135 C. 1904 [2] 588).
   C_{20}H_{17}O_{2}N_{5}
                              *8) Phenylamidoformiat d. 4-Oxy-s-Diphenylharnstoff. Sm. 238 bis
   C20H17O8N3
                                      239° (J. pr. [2] 67, 340 C. 1903 [1] 1339).
                             10) Benzoat d. \beta-[4-Oxyphenyl]amido-\alpha-Phenylharnstoff. Sm. 203 bis 204° (A. 334, 189 C. 1904 [2] 835).
                            *1) Berberin. HNO_3 (Soc. 83, 619 C. 1903 [1] 1364; C. 1903 [2] 1011). 13) Verbindung (aus Cotarnin u. Vanillin). HCl + H_2O (B. 37, 1963)
  C_{20}H_{17}O_4N
                                      C. 1904 [2] 44).
                             *1) Protopin (Ar. 241, 319 C. 1903 [2] 1284).
  C_{20}H_{17}O_5N
                              1) Verbindung (aus Zimmtsäure u. Trichloressigsäure) (R. 21, 353 C. 1903
  C_{20}H_{17}O_6Cl_3
                                     [1] 150).
  C<sub>20</sub>H<sub>17</sub>O<sub>7</sub>N<sub>3</sub> *1) Verbindung (aus d. Methylenäther d. 3,4-Dioxyphenylisonitrosodimethyl-
                                    keton) (A. 332, 332 C. 1904 [2] 652).
                               2) 4'-Benzylidenamido-4-Methyldiphenylsulfid. Sm. 99° (J. pr. [2] 68,
 C_{20}H_{17}NS
                                    272 C. 1903 [2] 993).
 \mathbf{C}_{20}\mathbf{H}_{17}\mathbf{N}_{2}\mathbf{Cl}
                              4) \alpha-Chlor-\alpha-[4-Methylphenyl]imido-\alpha-Diphenylamidomethan. Sm. 105
                                    bis 107°; Sd. 240—250° (B. 37, 966 C. 1904 [1] 1002).
                           *4) 2-Benzoylamido-1-Phenylamidomethylbenzol (B. 37, 3118 U. 1904
 C20 H18 ON2
                                    [2] 1317).
                           *6) \alpha\alpha-Diphenyl-\beta-[4-Methylphenyl]harnstoff(B.37,965 C.1904 [1]1002).
                           26) α-Phenylhydroxylamido-α-Benzylimido-α-Phenylmethan. Fl. HCl
                                   (B. 36, 20 C. 1903 [1] 510).
                           27) \alpha - Phénylhydroxylamido - \alpha - [4 - Methylphenyl]imido - \alpha - Phenyl-
                                   methan. Sm. 191°. HCl (B. 36, 21 C. 1903 [1] 510).
                          28) \alpha = [4 - Me^{-1/3}]^{-1/3} it: iroxylamido -\alpha - Phenylimido -\alpha - Phenylimido -\alpha - Phenylimido -\alpha - Phenylimido - \alpha - Phenylimido -\alpha - Ph
                                   C. 1903 [2] 365).
                          13) \alpha-Benzylidenamido-\beta-Phenylamido-\alpha-Phenylharnstoff. Sm. 206 bis 207° (B. 36, 1361 C. 1903 [1] 1340).
C20H18ON4
                           14) α-Phenylhydrazon-α-Phenylureïdo-α-Phenylmethan.
                                   Zers. (B. 36, 2485 C. 1903 [2] 490)
                          20) 3,5,3',5'-Tetramethylindigo (D.R.P. 61711). — *II, 969.
\mathbf{C}_{20}\mathbf{H}_{18}\mathbf{O}_{2}\mathbf{N}_{2}
                          17) \alpha - Phenyl - \alpha - Benzyl - \beta - [4 - Nitro - 2 - Amidobenzyliden] hydrazin. Sm. 155° (B. 37, 1863 C. 1904 [1] 1600).
C_{20}H_{18}O_{2}N_{4}
                           18) 4,6-Di[Phenylazo]-3,5-Dioxy-1,2-Dimethylbenzol. Sm. 229° u. Zers. + Eisessig (A. 329, 307 C. 1904 [1] 794). C 64,2 — H 4,8 — O 8,6 — N 22,4 — M. G. 374.
C20 H18 O2 N
                             1) 1,4-Di[\beta-Phenylsemicarbazon]-1,4-Dihydrobenzol.
                                                                                                                                                            Zers. bei 249°
                                   (A. 334, 168, 171 C. 1904 [2] 834).
                         (A. 305, 100, 111 b. 1504 [2] 503).

1) 2,5-Dibenzyläther d. 2,5-Dimerkapto-1,4-Dioxybenzol. Sm. 134 bis 135° (A. 336, 153 C. 1904 [2] 1300).

3) Felicinsäuredisazobenzol. Sm. 209° (A. 329, 298 C. 1904 [1] 797).

*6) 2-Methyläther d. 2,4,6-Trioxy-3,5-Diphenylazo-1-Methylbenzol.
C_{20}H_{18}O_2S_2
C_{20}H_{18}O_8N_2
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Sm. 204° (A. 329, 285 C. 1904 [1] 796).

5) Dibenzoylderivat d. Bisdiazoaceton.

C. 1904 [1] 1485).

C. 1904 [1] 940).

1) $\alpha\gamma$ -Disemicarbazon- β -Ph
talyl- α -Phenylbutan. Sm. 252° (B. 37, 582

C 59,1 — H 4,4 — O 15,8 — N 20,7 — M. G. 406.

Sm. 170° (G. 34 [1] 205

- $C_{20}H_{18}O_4Br_2$ 2) Dimethylester d. 1,3-Di[4-Bromphenyl]-R-Tetramethylen-2,4-Dicarbonsäure. Sm. 172° (B. 37, 219 C. 1904 [1] 588).
 - 3) Dimethylester d. isom. 1,3-Di[4-Bromphenyl]-R-Tetramethylen-2,4-Dicarbonsäure (D. d. Dibrom- γ -Truxillsäure). Sm. 1630 (B. 37, 223
- C. 1904 [1] 588).
 Sulfid d. β-Merkapto-αγ-Diketo-α-Phenylbutan (Thiobenzoylaceton). Sm. 95°. NH₄, Na, Fe, Cu (Bl. [3] 29, 528 C. 1903 [2] 243).
 Sm. 95°. NH₄, Na, Fe, Cu (Bl. [3] 29, 528 C. 1903 [2] 243). C20H18O4S
 - 2) 4-Oxytriphenylmethan-4-Methyläther-α-Sulfonsäure. Na + 5H₂O (B. 36, 2790 C. 1903 [2] 882).
- 3) α -Phenylsulfon- α -Benzylsulfon- α -Phenylmethan. Sm. 173—174° C20H18O4S2 (B. 36, 301 C. 1903 [1] 500).
- 2) Nitrocusparin (C. 1903 [2] 1011). C20 H18 O5 N2
 - 3) Anthranilopapaverin. Sm. 244-245° (B. 37, 1937 C. 1904 [2] 129).
- 4) Bisnitrosobenzoylaceton. Sm. 65° u. Zers. (B. 37, 1535 C. 1904 [1] $\mathbf{C_{20}H_{18}O_6N_2}$ 1609).
 - 5) Tetramethyläther d. Tetraoxyindigo. subl. oberh. 300° (B. 36, 2932)
 - C. 1903 [2] 888). 6) $\alpha\beta$ -Di[2-Acetylamidophenyl]äthen- $\alpha\beta$ -Dicarbonsäure (4. 332, 276 C. 1904 [2] 701).
- $C_{20}H_{18}O_6Cl_4$ 1) 4,4'-Diacetat d. $\alpha\beta$ -Dioxy- $\alpha\beta$ -Di[3,5-Dichlor-4-Oxyphenyl]äthan-
- αβ-Dimethyläther. Sm. 164° (A. 325, 57 C. 1903 [1] 462). 5) Tetramethyläther d. 6,7-Dioxy-1-[8-Nitro-3,4-Dioxybenzoyl]-C20H18O7N2 isochinolin (Nitropapaveraldin). Sm. 199-200° (B. 37, 1936 C. 1904 [2] 129).
- C 56,3 -- H 4,2 - O 26,3 - N 13,1 - M. G. 426. $C_{20}H_{18}O_7N_4$
 - 1) 2-Acetyläthylamidonaphtalin + 1,3,5-Trinitrobenzol. Sm. 77-78° (Soc. 83, 1339 C. 1904 [1] 99).
- $C_{20}H_{18}N_2J_2$ 3) Phenyl-2, 3'-Dimethylazobenzol-4'-Jodoniumjodid. Zers. bei 143° (J. pr. [2] 69, 325 C. 1904 [2] 35).
- $C_{20}H_{10}ON$ 5) α -Oxy-4-Methylamidotriphenylmethan (B. 37, 2858 C. 1904 [2] 775). 6) 2-Oxy-I-[a-Isopropylidenamidobenzyl]naphtalin. Sm. 124° (d. 33
 - [1] 33 *C.* 1903 [1] 926). 7) Phenyläther d. Dibenzylhydroxylamin. Sm. 125-126° (G. 33 [2]
- 459 C. 1904 [1] 655). 10) Phenylamid d. Di[Phenylamido]essigsäure. Sm. 141—142° (A. 332, 262 C. 1904 [2] 699). $C_{20}H_{19}ON_3$
- 3) 4-[4-(Methyl-a-Cyanäthylamido)phenylimido]-5-Keto-3-Methyl-1-C20H10ON Phenyl-4, 5-Dihydropyrazol. Sm. 190° (B. 36, 760 C. 1903 [1] 962).
- 8) Di[β -Keto- α -Benzylidenpropyl]amin. HCl (Soc. 83, 379 C. 1903 [1] $C_{20}H_{19}O_{2}N$ 845, 1144).
 - 9) 6-Phenylimido-4-Keto-5-Acetyl-2-Phenylhexahydrobenzol. 124—125° (B. 37, 3383 C. 1904 [2] 1219).
 - Verbindung (aus β -Naphtolbenzalamin). Sm. 103 ° (G. 33 [1] 28 C. 1903 [1] 926).
- *1) Cusparin (C. 1903 [2] 1010). $C_{20}H_{19}O_3N$
 - 8) 4-Acetylamido-1-[2,5-Dimethylbenzoyl|-2-Methylbenzfuran. Sm. 200-205° u. Zers. (B. 36, 1262 C. 1903 [1] 1184).
- *1) Aethylester d. 4,5-Diketo-2-Phenyl-1-[4-Methylphenyl]tetrahydro- $C_{20}H_{10}O_4N$ pyrrol-3-Carbonsäure. Sm. 150° (C. r. 139, 212 C. 1904 [2] 656).
 - 4) Anhydrocotarnineumaron. Sm. 66-71°. (2HCl, PtCl₄) (B. 37, 2742) C. 1904 [2] 544).
 - 5) Monooxim d. 3-Keto-2-Benzoyl-I-Phenyl-R-Pentamethylen-5-Carbonsäuremethylester. Sm. 184—185° (A. 326, 371 C. 1903 | 1 | 1125).
- Diazopapaverin. Sm. 281° (B. 37, 1934 C. 1904 [2] 129).
 Monosemicarbazon d. 3-Keto 2 Benzoyl 1 Phenyl R Penta- $C_{20}H_{19}O_4N_3$
 - methylen-5-Carbonsäure. Sm. 236-237° u. Zers. Ag (A. 326, 378 C. 1903 [1] 1126).
- C20H19O4N5 C 61.1 - H 4.8 - O 16.3 - N 17.8 - M. G. 393.1) 3,4-Dinitro-4'-Amido-4'-Dimethylamidotriphenylmethan. Sm. 209°
- (*J. pr.* [2] 69, 239 *C.* 1904 [1] 1268).

 *1) Papaveraldin. Sm. 210° (*B.* 37, 1936 *C.* 1904 [2] 129).

 *3) Chelidonin (*C.* 1904 [1] 1224).

 *4) Protopin. Sm. 204—205° (*C.* 1903 [1] 1142). $C_{20}H_{19}O_5N$

2) Aethylester d. a-Friedylazo-Treesylamidobile Sylbressaure. Sm. 123—124° (B. 36, 2698 C. 1903 [2] 952).
 2) Diazopapaveraldin. Sulfat (B. 37, 1939 C. 1904 [2] 129).

8) 22,24-Diathyläther d. 8-Nitroso-7-Oxy-4-Methylen-2-2,4-Dioxy-

phenyl]-1,4-Benzpyran. Sm. 170-178° (B. 37, 360 C. 1904 [1] 671). 2) Aethylester d. α-Phenylazo-4-Acetylamidobenzoylbrenztrauben-

 $C_{20}H_{19}O_5N$

 $C_{20}H_{19}O_5N_3$

C20H19O6N3

 $C_{20}H_{20}O_6N_4$

- 3) β-Diphenylmethylamido-α-Phenylthioharnstoff (Benzhydrylphenyl- $C_{20}H_{19}N_3S$ thiosemicarbazid). Sm. 163-164° (J. pr. [2] 67, 171 C. 1903 [1] 874). 13) Methyläther d. α-Oxy-4,4'-Diamidotriphenylmethan. Sm. 161 bis $C_{20}H_{20}ON_2$ 163° (B. 37, 2863 C. 1904 [2] 776). 14) 4-Dimethylamidophenyl-4-Methylamido-1-Naphtylketon. Sm 2120 (D.R.P. 84655; C. 1903 [1] 87; B. 37, 1902 C. 1904 [2] 115). — *III, 194. 7) 4,6-Dioxy-1,3-Di[4-Amidobenzyl]benzol. Sm. 212-213°. (2 HCl. $C_{20}H_{20}O_2N_2$ PtCl₄), H₂SO₄ (M. 23, 980 C. 1903 [1] 288). 8) Aethylester d. 6-Methyl-1,3-Diphenyl-1,4-Dihydro-1,2-Diazin-5-Carbonsäure. Sm. 114—116° (A. 331, 310 C. 1904 [2] 45). Verbindung (aus α-Cyanpropionsäureäthylester). Sm. 195° u. Zers. (C. 1903 [2] 713). 4) Verbindung (aus Dibenzylhydroxylamin). Sm. 115° (B. 36, 2289) $C_{20}H_{20}O_2N_4$ C. 1903 [2] 564). $C_{20}H_{20}O_2N_6$ C 63.8 - H 5.3 - O 8.5 - N 22.3 - M. G. 376.1) 3,6-Di[4-Acetylamidobenzyl]-1,2,4,5-Tetrazin. Sm. 2050 (B. 35, 3939 C. 1903 [1] 39).

 1) Dibenzyläther d. 2,5-Dimenter to-1,4-Diketohexahydrobenzol.
 Sm. 160-163° (A. 336, C. 1901 in 1300). $C_{20}H_{20}O_2S_2$ 3) Anhydrocotarninbenzylcyanid. Sm. 134°. HCl (B. 37, 3336 C. 1904 $C_{20}H_{20}O_3N_2$ [2] 1155). $C_{20}H_{20}O_4N_2$ 13) Aethylester d. γ -Phenylhydrazon- α -[3,4-Dioxyphenyl]- α -Buten-3,4-Methylenäther- β -Carbonsäure. Sm. 135 6 (B. 37, 1704 C. 1904) 14) Diacetat d. Di [6 - Oxy - 3 - Methylbenzyliden] hydrazin. Sm. 1639
 (B. 37, 3187 C. 1904 [2] 992). *1) Papaveraldoxim (C. 1903 [1] 844). $C_{20}H_{20}O_5N_2$ 3) Tetramethyläther d. 6,7-Dioxy-1-[6-Amido-3,4-Dioxybenzoyl]isochinolin (Amidopapaveraldin). Sm. 171-1720 (B. 37, 1938 C. 1904 [2] 129). 4) Nitrosopapaverin. Sm. 181,5°. HCl, (2HCl, PtCl₄), HNO₂, HNO₈, Pikrat (C. 1903 [1] 844). C₂₀H₂₀O₆N₂ *4) Tetramethyläther d. 6,7-Dioxy-1-[3-Nitro-3,4-Dioxybenzyl]iso-chinolin (Nitropapaverin). Sm. 186—187° (B. 37, 1930 C. 1904 [2] 128, 17) Diäthylester d. $\alpha\beta$ -Dibenzoylhydrazin- $\alpha\beta$ -Dicarbonsäure. Sm. 83° (P. Gutmann, Dissert., Heidelberg 1903).

 18) Diacetat d. 4, 4'-Di [Acetylamido]-2, 2'-Dioxybiphenyl. Sm. 128° (J. pr. [2] 67, 271 C. 1903 [1] 1221).

 C 58,2 — H 4,8 — O 23,3 — N 13,6 — M. G. 412.

 1) 1-Diäthylamidonaphtalin + 1,3,5-Trinitrobenzol. Sm. 95-95,5° (See 83 1227 C 1904 [11 00).
 - 2) 2-Diäthylamidonaphtalin + 1,3,5-Trinitrobenzol. Sm. 116° (Soc. 83, 1339 C. 1904 [1] 99). 4) Aethylester d. β -Acetyl- $\alpha\gamma$ -Di[4-Nitrophenyl]propan- β -Carbon- $C_{20}H_{20}O_7N_2$ säure (Ac. d. Di-[4-Nitrobenzyl]acetessigsäure). Sm. 139-140 (1. 32
 - [2] 356 *C.* **1903** [1] 629). $C_{20}H_{20}O_8N_2$ 2) Di[P-Nitro-2,4-Dimethylphenylester] d. Bernsteinsäure. Sm. 1690
 - (B. 35, 4080 C. 1903 [1] 74). C 54,0 H 4,5 O 28,0 N 12,6 M. (4. 222. $C_{20}H_{20}O_8N_4$ 1) Benzalacetonpseudonitrosit. Sm. 109-110° u. Zers. (A. 329, 257 C. 1904 [1] 32).
 - $\mathbf{C}_{20}\mathbf{H}_{20}\mathbf{O}_{10}\mathbf{N}_{2}$ 2) Di [3 - Nitrobenzyliden] sorbit. Sm. 220° (Bl. [3] 29, 505 (). 1903
 - C 50,9 H 4,2 O 40,0 N 5,8 M. G. 480.

 1) Dinitrotetramethylhämatoxylon. Sm. 187—192° u. Zers. (B. 36, 39) $C_{20}H_{20}O_{12}N_2$

(Soc. 83, 1337 C. 1904 [1] 99).

C. 1903 [1] 587; M. 25, 888 C. 1904 [2] 1313). — *III, 490. $\mathbf{C}_{20}\mathbf{H}_{20}\mathbf{N}_{2}\mathbf{S}_{4}$ 1) Diallyläther d. Di [Phenylimidomerkaptomethyl disulfid. Sm. 74 bis 75° (B. 36, 2265 C. 1903 [2] 562).

- C20H21ON 8) α-[1-Piperidyl]-γ-Keto-αγ-Diphenylpropen. Sm. 99-100 (Soc. 85, 1323 C. 1904 [2] 1645). *1) Rosanilin (B. 37, 3031 C. 1904 [2] 1010).
- $C_{20}H_{21}ON_3$
 - 3) Methyläther d. α-Oxy-4,4',4"-Triamidotriphenylmethan. Sm. 105°.
- + $(C_2H_6)_2O$, + C_6H_6 (Sm. 135°) (B. 37, 2874 C. 1904 [2] 777). 4) Monoxim d. 2-Keto-1-[γ -Keto- $\alpha\gamma$ -Diphenylpropyl]-R-Pentamethylen. Sm. 154—155° (B. 35, 3974 C. 1903 [1] 37). $C_{20}H_{21}O_{2}N$
- 2) Aethylester d. α-Phenylimido-γ-Keto-α-Phenyl-β-Methylbutan-β-Carbonsäure. Sm. 158° (D.R.P. 33497). *II, 1079.
 2) The best of the control of Condin (Superscript of Condin) (Superscript of Con $C_{20}H_{21}O_{3}N$
- $\mathbf{C}_{20}\mathbf{H}_{21}\mathbf{O_4N}$
- *2) Tetrahydroberberin (i-Canadin) (Soc. 83, 618 C. 1903 [1] 590).
 *3) Papaverin. HJ, Ferrocyanat + 5 H₂O, CHNS, Oxalat (C. 1903 [2] 385; Soc. 83, 616 C. 1903 [1] 590; J. pr. [2] 68, 193 C. 1903 [2] 838).
 8) Acetylmorphotebain. Sm. 183° (B. 17, 531). III, 910.

 - 9) Anhydrocotarninacetophenon. Sm. 126°. (2 HCl, PtCl₄) (B. 37, 215 C. 1904 [1] 591).
 - 10) Verbindung (aus Tetramethoxydesoxybenzoïnacetalamin).
 (A. 329, 60 C. 1903 [2] 1448).
 C 65,4 H 5,7 O 17,4 N 11,4 M. G. 367. Sm. 162°
- $C_{20}H_{21}O_4N_8$
 - 1) Monosemicarbazon d. $\alpha \delta$ -Diketo- $\alpha \delta$ -Diphenylbutan- β -Carbonsäure. Sm. 138—140° (A. 331, 317 C. 1904 [2] 46). C 60,7 — H 5,3 — O 16,2 — N 17,7 — M. G. 395.
- $C_{20}H_{21}O_4N_{\delta}$
 - 1) Benzylidenhydrazid d. Benzoylbis[Amidoacetyl]amidoessigsäure.
- Sm. 264° (J. pr. [2] 70, 95 C. 1904 [2] 1035). 5) 4-Acetat d. 4-Oximido-6-Oxy-2-[4-Oxyphenyl]-2,3-Dihydrobenz- $C_{20}H_{21}O_5N$ pyran-24-Methyläther-6-Aethyläther. Sm. 1680 (B. 33, 1484). -*III, 560.
- C20H21O7N
- Oxim d. Tetramethylhämatoxylon (B. 36, 3714 C. 1904 [1] 38).
 8, 8'- Dibrom 5, 5'- Diazoamido 1, 2, 3, 4, 1', 2', 3', 4'- Oktohydronaphtalin (Soc. 85, 748 C. 1904 [2] 447). $\mathbf{C}_{20}\mathbf{H}_{21}\mathbf{N}_{3}\mathbf{Br}_{2}$
- $C_{20}H_{22}O_2N_2$ 22) Dehydrochinin. Sm. 185°. $HCl+xH_2O$, Oxalat $+xH_2O$, $(4+3H_2SO_4, 2HJ, J_4)$ (J. pr. [2] 69, 217 C. 1904 [1] 1448).
 - 23) Base (aus Phenacetin). Sm. 220°. HCl (D.R.P. 137121 C. 1903 [1]
 - 24) Phenylpyrazol d. 3-Keto-2-Benzoyl-1-Phenyl-R-Pentamethylen-5 - Carbonsäuremethylester. Sm. 149-150° (A. 326, 378 C. 1903 [1] 1126).
- $C_{20}H_{22}O_3N_2$ 7) Succinein d. m-Dimethylamidophenol (D.R.P. 51983, 54997). — *III, 571.
 - 8) Aethylester d. α -Phenylhydrazon- δ -Keto- α -Phenylpentan- γ -Car-
- bonsäure. Sm. 152° (A. 331, 309 C. 1904 [2] 45).
 4) Benzylidenhydrazid d. β-Benzoylamidoacetylamidobuttersäure. Sm. 154° (J. pr. [2] 70, 208 C. 1904 [2] 1459). $C_{20}H_{22}O_3N_4$
 - 5) Benzylidenhydrazid d.a-[a-Benzoylamidopropionyl]amidopropionsäure. Sm. 230° (J. pr. [2] 70, 151 C. 1904 [2] 1394).
- $C_{20}H_{22}O_4N_2$ 21) Diäthyläther d. β-Phenylazo-αγ-Diketo-α-[2,4-Dioxyphenyl] butan. Sm. 82—83° (B. 87, 356 C. 1904 [1] 670).
 - 22) Tetramethyläther d. 6,7-Dioxy-1-[6-Amido-3,4-Dioxybenzyl]isochinolin + H₂O (Amidopapaverin). Sm. 116° (143° wasserfrei) (B. 37, 1933 C. 1904 [2] 129).
 - 23) Aethylester d. α -Benzoylamidoacetylamido- β -Phenylpropionsäure.
- Sm. 98° (J. pr. [2] 70, 227 (J. 1904 [2] 1461). C₂₀ $\mathbf{H}_{22}\mathbf{O}_4\mathbf{N}_4$ *2) Diäthylester d. Di [Phenylhydrazon] äthan $\alpha\beta$ Dicarbonsäure. Sm. 154—155° (Bl. [3] 31, 95 (J. 1904 [1] 581).
 - 8) 2, 4, 2', 4', Tetra [Acetylamido] biphenyl $+3H_2O$. Sm. 284° (wasserfrei) (J. pr. [2] 66, 562 C. 1903 [1] 518).
 - 9) $\alpha\beta$ -Di[α -Benzoylamidopropionyl]hydrazin. Sm. 262° (J. pr. [2] 70,
 - 147 *C.* **1904** [2] 1394). 10) 2-Oxybenzylidenhydrazid d. β -Benzoylamidoacetylamidobuttersäure. Sm. 186° (J. pr. [2] 70, 209 C. 1904 [2] 1460).
 - 11) Di[a-Phenyläthylidenhydrazid] d. d-Weinsäure. Sm. 232° (Soc.
- 83, 1365 C. 1904 [1] 85). C20H22O4N6
- C 58,5 H 5,3 O 15,6 N 20,5 M. G. 410. 1) Benzylidenhydrazid d. β -Phenylureïdoacetylamidoacetylamidoessigsäure. Sm. 247,5° (J. pr. [2] 70, 261 C. 1904 [2] 1465).

C 71.2 - H 6.8 - O 9.5 - N 12.5 - M. G. 337.1) Isonitrosomethylcinchotoxin (B. 33, 3225). — *III, 637.

2) d - 1 - $\lceil \beta$ - Phenylisobutyryl amido - 2 - Methyl - 2, 3 - Dihydroinden.

Sm. 152° (Soc. 85, 448 C. 1904 [1] 1445).
3) Dimethylapomorphimethin. Fl. HCl (B. 35, 4390 C. 1903 [1] 339).

5) Aethylester d. α-Phenylamido -γ-Keto-α-Phenyl-β-Methylbutan-β-Carbonsäure. Sm. 123°. HCl (Soc. 85, 1000 C. 1904 [2] 704).

6) Aethylester d. α -[2-Methylphenyl]amido- γ -Keto- α -Phenylbutan- β -Carbonsäure. Sm. 89—90° (Soc. 85, 1177 O. 1904 [2] 1216). 7) Triacetylderivat d. 4 - Amido - 4' - Dimethylamidodiphenylamin.

2) 2-Semicarbazon-I, 4,5-Trioxy-I,3-Dimethyl-4,5-Diphenyl-R-Penta-

 $C_{20}H_{28}ON$

 $C_{20}H_{23}O_{2}N$ $C_{20}H_{23}O_2N_3$

 $\mathbf{C}_{20}\mathbf{H}_{28}\mathbf{O}_{3}\mathbf{N}$

 $C_{20}H_{28}O_8N_3$

C20H23O4N8

1) Verbindung (aus Triathylamin u. Pyrogallolcarbonat). Sm. 111º (B. 37, 111 *O.* **1904** [1] 584). $C_{20}H_{24}ON_{2}$ *5) Methylcinchotoxin. Sm. 74—75° (B. 37, 1675 C. 1904 [1] 1526). hydrazin. Sm. 137° (C. 1903 [1] 141). 1) Benzyläther d. γ -Keto- ε -Merkapto- ε -Phenyl- β -Methylpentan. Sm. 62—63° (B. 37, 506 C. 1904 [1] 883). $C_{20}H_{24}OS$ C₂₀H₂₄O₂N₂*18) Chinin. Nitroprussidwasserstoffsalz (C. 1903 [2] 385; C. r. 136, 129 C. 1903 [1] 524; Soc. 83, 624 C. 1903 [1] 1364; Ar. 241, 54 C. 1908 [1] 1005; C. 1904 [2] 1742). *20) Conchinin (Chinidin). Nitroprussidwasserstoffsalz + 2H₂O (C. 1903) [2] 385; C. r. 136, 137 C. 1903 [1] 525). 40) 4,4'-Di[Acetyläthylamido]biphenyl. Sm. 167° (166,5—177,5°) (C. 1903) 1] 1128; B. 35, 4184 C. 1903 [1] 143). 41) Di[Phenylamid] d. β -Methylpentan- $\alpha\delta$ -Dicarbonsäure. (C. r. 138, 210 C. 1904 [1] 663). 42) Di[Phenylamid] d. β -Aethylbutan- $\alpha\alpha$ -Dicarbonsäure. Sm. 219 \pm 220° (Bl. [3] 31, 351 C. 1904 [1] 1134). $C_{20}H_{24}O_2N_4$ 2) $\alpha \gamma$ -Di[2, 4-Dimethylphenylnitrosamido]- α -Buten. Sm. 79-80° (**Å. 329**, 222 *C.* **1903** [2] 1428). $C_{20}H_{24}O_{2}J_{2}$ 1) Verbindung (aus Thymol) (M. 24, 74 C. 1903 [1] 767). $C_{20}H_{24}O_8S$ 2) γ -Keto- ε -Benzylsulfon- ε -Phenyl- β -Methylpentan. Sm. 133—134° (B. **37**, 506 C. **1904** [1] 883). $C_{20}H_{24}O_4N_2$ 11) 6-Methyläther-4,5-Methylénäther-14-Aethyläther d. 4,5,6-Trioxynin-p-Aethoxyanil). Sm. 120° (B. 36, 1528 C. 1903 [2] 51). 12) Metochinon. Sm. 135° u. Zers. (C. 1903 [1] 1129). 13) Di[Phenylamidoformiat] d. αζ-Dioxyhexan. Sm. 171—172° (C. r. 136, 245 C. 1903 [1] 583). $C_{20}H_{24}O_5N_2$ 3) Nitrosoisotetrahydropapaverin. Sm. 138° (B. 37, 3322 U. 1904 [2] 1155). 4) Diäthylester d. 1-Phenacetylamido-2,5-Dimethylpyrrol-3,4-Dicarbonsäure. Sm. 146—147° (B. 35, 4316 C. 1903 [1] 336). C 60,0 — H 6,0 — O 20,0 — N 14,0 — M. G. 400. $C_{20}H_{24}O_5N_4$ 1) Methylester d. δ -Oximido- ϵ -Phenylhydroxylhydrazon- γ -Phenyl-(Soc. 83, 1243 C. 1903 [2] 1421].

2) I-Phenylhydrazid d. 2,5-Dimethylpyrrol-I-Oxaminsäure-3,4-Dicarbonsäure. Sm. 194-195° (B. 37, 2427 C. 1904 [2] 341).

C 57,1 — H 5,7 — O 30,5 — N 6,7 — M. G. 420. $\mathbf{C}_{20}\mathbf{H}_{24}\mathbf{O_6N_4}$ $\mathbf{C_{20}H_{24}O_{8}N_{2}}$ 1) Anetholpseudonitrosit. Zers. bei 120° (A. 329, 261 C. 1904 [1] 32).

methylen. Sm. 165—180° u. Zers. (Soc. 83, 300 C. 1903 [1] 878). 3) Tolypyrinorthoform. Sm. 86° (A. 325, 319 C. 1903 [1] 769). 4) isom. Tolypyrinorthoform. Sm. 79-80° (A. 325, 319 C. 1903 [1] 769).

Sm. 142° (J. pr. [2] 69, 228 C. 1904 [1] 1268).

5) Benzylester d. β -Benzoylamidoacetylamidopropylamidoameisensäure. Sm. 152-153° (J. pr. [2] 70, 218 C. 1904 [2] 1460). 2) Diäthylester d. 2,5-Dimethyl-1-[4-Acetylphenyl]pyrrol-3,4-Di- $C_{20}H_{23}O_5N$

carbonsäure. Sm. 114° (B. 36, 394 C. 1903 [1] 723). *2) Di[a-Benzoxylisopropyl]unterphosphorige Säure (C. 1904 [2] 1708). $C_{20}H_{23}O_6P$ $C_{20}H_{28}O_8N$ C 59.3 - H 5.7 - O 31.6 - N 3.4 - M. G. 405.

11) α - Acetyl - α - [2, 5-Dimethylbenzyl] - β - [2, 5-Dimethylbenzyliden] -

2-[β -Methylamidoäthyl]-1-[4-Oxyphenyl]imidomethylbenzol (Cotar-

amido- γ -Oxy- β -Methylpentan- β -Carbonsäure. Sm. 108—110 o u. Zers.

- $C_{20}H_{24}O_{9}N_{4}$ C 51,7 - H 5,2 - O 31,0 - N 12,1 - M. G. 464.1) Di[4-Nitrobenzyl]hydrazon d. Fruktose. Sm. 112° (R. 22, 439 C. 1904 [1] 15). 2) Di[4-Nitrobenzyl]hydrazon d. Galaktose. Sm. 153° (R. 22, 439 C. 1904 [1] 15). 3) Di[4-Nitrobenzyl]hydrazon d. Glykose. Sm. 142° (R. 22, 439
- C. 1904 [1] 15). $C_{20}H_{24}N_3J$ 1) 2-Jodpropylat d. 5-Methylphenylamido-3-Methyl-1-Phenyl-
- pyrazol. Sm. 134° (B. 36, 3277 C. 1903 [2] 1189). $\mathbf{C}_{20}\mathbf{H}_{25}\mathbf{ON}_3$ 3) α -Nitroso- α -[2,4,6-Trimethylbenzyl]- β -[2,4,6-Trimethylbenzy-
- liden]hydrazin. Sm. 117° (C. 1903 [1] 142). 5) 4-Keto-1-[4-Oxy-2-Methyl-5-Isopropylphonyl'imido-2-Methyl- $C_{20}H_{25}O_{2}N$ 5 - Isopropyl - 1, 4 - Dihydrobenzol (Thymceninoathymolimide (B. 7, 1100; B. 36, 2892 C. 1903 [2] 876).
 - 6) Phenylamidoformiat d. α-Oxy-α-[2,4,6-Trimethylphenyl]-β-Methylpropan. Sm. 169° (B. 37, 928 C. 1904 [1] 1209).
 *2) r-Laudanin (Soc. 83, 626 C. 1903 [1] 591).
- $C_{20}H_{25}O_4N$ *6) i-Tetrahydropapaverin (Soc. 83, 616 C. 1903 [1] 591).
- 9) Isotetrahydropapaverin. HJ (B. 37, 3323 C. 1904 [2] 1155).
 10) Isotetrahydropapaverin. HJ (B. 37, 3323 C. 1904 [2] 1155).
 10) Isotetrahydropapaverin. HJ (B. 37, 3323 C. 1904 [2] 1155).
 6) Oxydihydrochinin. HCl (D.R.P. 152174 C. 1904 [2] 166).
 2) Yohimboasäure (Noryohimbin). Sm. 257-260° u. Zers. Ag (B. 36, 170 C. 1903 [1] 471; B. 37, 1762 C. 1904 [1] 1527). $C_{20}H_{26}O_8N_2$ $C_{20}H_{26}O_4N_2$
- *1) Di[Methylphenylhydrazon] d. d-Glykose. Sm. 153° (B. 37, 3362 $\mathbf{C}_{20}\mathbf{H}_{26}\mathbf{O}_4\mathbf{N}_4$ C. 1904 [2] 1210).
- 2, 2' Dinitro 4, 4' Di Diäthylamido biphenyl. Sm. 114° (132°) (C. 1901 [2] 1375; B. 37, 31 (. 1904 [1] 524).
 Dimethylester d. Phenylhydrazonglyoximperoxyddihydrotetra-C20 H26 O7 N4
- methyldimalonsäure. Sm. 177° (Soc. 83, 1261 C. 1903 [2] 1423). *2) Di[4-Oxy-2-Methyl-5-Isopropylphenyl]amin. HJ (B. 36, 2892) $C_{20}H_{27}O_{2}N$
- C. 1903 [2] 875). C 70,4 H 7,9 O 9,4 N 12,3 M. G. 341. $C_{20}H_{27}O_{2}N_{3}$
- Menthylester d. α-Cyan-α-[4-Methylphenyl]azoessigsäure. Sm. 93 bis 95° (C. 1903 [1] 566; Soc. 85, 44 C. 1904 [1] 789).
 Monophenylamidoformiat d. 9 Methyl 3 Isopropenylbicyklo-
- $C_{20}H_{27}O_8N$ [1, 3, 3]-Nonan-5, 7-diol. Sm. 55-65° (B. 36, 232 C. 1903 [1] 514).
- 3) Monophenylamidoformiat d. isom. 9-Methyl-3-Isopropenylbicyklo-[1,3,3]-Nonan-5,7-diol. Zers. bei 80° (B. 36, 233 C. 1903 [1] 514). C 63,7 — H 7,1 — O 25,5 — N 3,7 — M. G. 377.

 1) Aethylester d. Anhydrocotarninäthylacetessigsäure. Fl. HCl, C20H27O6N
- (2 HCl, PtCl₄) (B. 37, 2748 C. 1904 [2] 545).
- 2) Anhydrid d. Oximidocampher. Sm. 1870 (Soc. 83, 530 C. 1903 [1] $C_{20}H_{28}O_3N_2$ 1136, 1353; Soc. 85, 907 C. 1904 [2] 597).
 - 3) Menthylester d. a-Phenylazoacetylessigsäure. Sm. 76—77° (Soc. 83, 1120 C. 1903 [2] 23, 791).
 4) Verbindung (aus d. Benzoat d. Oximidocampher). Sm. 154° (Soc. 85, 907 C. 1904 [2] 597).
 - 2) Peroxyd (aus Öximidocampher). Sm. 96° u. Zers. (Soc. 85, 900 C. 1904
- $C_{20}H_{28}O_4N_2$ [2] 597). Verbindung (aus d. Peroxyd C₂₀H₂₈O₄N₂). Sm. 207° u. Zers. (Soc. 85, 901 C. 1904 [2] 597).
- 4) Anhydrid d. Camphoryloxim. Sm. 220° (Soc. 83, 955 C. 1903 [2] $C_{20}H_{28}O_5N_2$ 201, 665).
- Verbindung (aus d. Verb. $C_{20}H_{28}O_4N_2$). Sm. 172—173 ° u. Zers. (Soc. 85, 900 C. 1904 [2] 597).
- $C_{20}H_{29}O_{2}N$
- *1) Menthylester d. β-Phenylamidopropen-α-Carbonsäure. Sm. 89—90° (Soc. 81, 1506 C. 1903 [1] 138).
 *1) Menthylester d. β-[4-Nitrophenyl]hydrazidopropen-α-Carbonsäure (Soc. 81, 1504 C. 1903 [1] 138).
 U 61,4 H 7,4 O 20,5 N 10,7 M. G. 391.
 1) Application of the Experimental Control of the Cont $C_{20}H_{29}O_4N_8$ $C_{20}H_{20}O_5N_3$
- Amylester d. α [α Benzoylamidoacetylamidopropionyl] amidopropionsäure. Sm. 155° (J. pr. [2] 70, 124 C. 1904 [2] 1037).
 Disulfid d. Merkaptocampher. Sm. 224° (Soc. 83, 482 C. 1903 [1]
- C20H30O2S2 923, 1137).

C₂₀H₃₀O₄S₂
1) 1,4-Diacetat d. 2,5-Dimerkapto-1,4-Dioxybenzol-2,5-Diisoamy äther. Sm. 103—106° (A. 336, 157 C. 1904 [2] 1:300.
C₂₀H₃₀O₁₄N₆*1) Dimyreennitrosit. Zers. bei 160—161° (B. 35, 4420 C. 1903 [1] 333 B. 36, 1937 C. 1903 [2] 201; B. 37, 3846 C. 1904 [2] 1613).

C 61,5 — H 7,7 — O 16,4 — N 14,4 — M. G. 390. 1) Verbindung (aus d. Verb. $C_{20}H_{28}O_4N_2$). Zers. bei 262° (Sinc. 85, 9)

2) I-Menthylamid d. d-\$-Phenylisobuttersäure. Sm. 140" (Soc. 85, 44)

Verbindung (aus Nitrosodihydrolaurolaktam). Sm. 99ⁿ (Am. 32, 29
 C. 1904 [2] 1222).

 $C_{20}H_{30}O_4N_4$

 $C_{20}H_{31}ON$

 $C_{20}H_{32}O_4N_2$

C20H34NCl

 $C_{20}H_{14}ON_2S$

C20 H14O, NCl

C. 1904 [1] 1405).

C. 1904 [2] 597).

C. 1904 [1] 1445).

1) Chlorisoamylat d. d-2-Propyl-1-Benzylhexahydropyridin (Ch. N-Benzylconin). 2 + PtCl₄ (B. 37, 3635 (f. 1904 |2| 1510).
2) isom. Chlorisoamylat d. d-2-Propyl-1-Benzylhexahydropyridin 2 + PtCl₄ (B. 37, 3635 (f. 1904 |2| 1510).
1) Jodisoamylat d. d-2-Propyl-1 Benzylhexahydropyridin (f. 1904 |2| 1510). 1) Jodisoamylat d. d-2-Propyl-1-Benzylhexahydropyridin J. d. N $C_{20}H_{34}NJ$ Benzylconiin). Sm. 169 (B. 37, 3634 C. 1904 [2] 1510). 2) isom. Jodiscamylat d. d - 2 - Propyl - 1 - Benzylhexahydropyridin Sm. 185° (B. 37, 3634 C. 1904 [2] 1510).
 Oxamid d. act. α-Dihydrocampholenamin. Sm. 147-148° (Bl. [327, 74 C. 1902 [1] 585).
 Oxamid d. r-α-Dihydrocampholenamin. Sm. 150° (C. r. 136, 114). C20 H36 O2 N2 C. 1903 [1] 1410). 5) Ureïd d. r-α-Dihydrocampholenaminharnstoff. Sm. 112" (Bl. [3] 29, 609 C. 1903 [2] 374). 3) Aethylester d. Dibromdihydrochaulmoograsüure. Fl. (Sur. 85, 85, C. 1904 [2] 348, 604). $\mathbf{C}_{20}\mathbf{H}_{36}\mathbf{O}_{2}\mathbf{Br}_{2}$ 1) Bromacetoxylstearinsäure. Fl. (J. pr. [2] 67, 295 (J. 1903 [1] 1401 2) P-Brom-P-Acetoxylstearinsäure. Fl. (J. 1903 [1] 319). $\mathbf{C}_{20}\mathbf{H}_{87}\mathbf{O_3}\mathbf{Br}$ $C_{20}H_{37}O_4Br$ C 62,0 — H 9,6 — O 24,8 — N 3,6 — M. G. 387.

1) P-Nitro-P-Acetoxylstearinsäure. Fl. (C. 1904 |1| 260).

1) Jodisoanylat d. Sparteïn. Sm. 229°. HJ (Ar. 242, 519 C. 1904). C20H37O6N $C_{20}H_{87}N_2J$ [2] 1413). _ 20 IV _ $\mathbf{C}_{20}\mathbf{H}_{6}\mathbf{O}_{7}\mathbf{Cl}_{4}\mathbf{Br}_{9}$ 1) Tetrachlordibromdioxyfluorescein (B. 36, 1079 C. 1903 [1] 11829 1) β -Nitrotetrabromfluorescein (D.R.P. 139428 C. 1903 [1] 6779, 1) Dichlordibromdioxyfluorescein (B. 36, 1081 C. 1903 [1] 1182-1) 2,3-Di[3,5-Dichlor-4-Oxyphenyl]-1,4-Benzdiazin. Sm. 256-257 C20H7O7NBr4 C20H8O7Cl2Br2 $\mathbf{C}_{20}\mathbf{H}_{10}\mathbf{O}_{2}\mathbf{N}_{2}\mathbf{C}\mathbf{I}_{4}$ (A. 325, 89 C. 1903 [1] 465). 1) 2,3-Di[3,5-Dibrom-4-Oxyphenyl]-1,4-Benzdiazin. Sm. 240 $\mathbf{C}_{20}\mathbf{H}_{10}\mathbf{O}_{2}\mathbf{N}_{2}\mathbf{Br}_{4}$ (A. 325, 91 C. 1903 [1] 465). $\mathbf{C}_{20}\mathbf{H}_{11}\mathbf{O}_{2}\mathbf{NCl}_{2}$ 1) Verbindung (aus Fluoresceïnchlorid). Sm. 235° (D. R.P. 48480). - $C_{20}H_{11}O_7N_6Br$ 1) 3-Oxy-2-[3-Brom-2-(2,4,6-Trinitrophenyl)amidophenyl-1,4-Benzdiazin. Sm. 287-288° (B. 35, 4334 C. 1903 | 1 293). $C_{20}H_{12}O_2NBr$ Brom - α'- Phenylpyrophtalon. Sm. 131° (B. 36, 3221 C. 1904) 1] 98). 1) Benzoat d. Verb. C₁₉H₈O₂NCl. Sm. 231 ° (Bl. |3| 31, 532 C. 1904 $C_{20}H_{12}O_3NC1$ [1] 1598). C20H12O4N4Cl 1) 1,4-Di[4-Chlor-2-Nitrobenzylidenamido|benzol. Sm. 230° (//. 37, 1871 C. 1904 [1] 1601). $C_{20}H_{18}ON_{2}Br$ 1) 2 [oder 7] - Brom - 9 - Phenylhydrazon - 10 - Keto - 0, 10 - Dihydrophenanthren. Sm. 171-172° (B. 37, 3561 C. 1904 [2] 1401). $\mathrm{C_{20}H_{13}O_{2}NCl_{2}}$ 1) 3-Chlor-4-Benzoylchloramidodiphenylketon. Sm. [23] (Sur. 85, 343 C. 1904 [1] 1405). $\mathbf{C}_{20}\mathbf{H}_{18}\mathbf{O}_{2}\mathbf{N}\mathbf{Br}_{4}$ 1) a'-Phenylpyrophtalontetrabromid. Sm. 237" (B. 36, 3920 C. 1904

2) 2-[2-Naphtyl]imido - 4 - Keto -5 - Benzylidentetrahydrothiazol.

2) 3-Chlor-4-Benzoylamidodiphenylketon. Sm. 126° Soc. 85, 342

	<u> </u>	IV.
$\mathbf{C}_{20}\mathbf{H}_{14}\mathbf{O}_{2}\mathbf{NCl}$	3) 2-Benzoylchloramidodiphenylketon. Sm. 98° (C. 1903 [1] 11 4) 4-Benzoylchloramidodiphenylketon. Sm. 107° (C. 1903 [1] 11	.37). 38).
$\mathbf{C_{20}H_{14}O_{2}NBr}$	2) 4-Benzoylbromamidodiphenylketon. Sm. 93° (C. 1903 [1] 11 3) Phenyl-4-Brombenzoylamid d. Benzolcarbonsäure. Sm. 1 (Am. 30, 33 C. 1903 [2] 363).	.38).
$\mathbf{C}_{20}\mathbf{H}_{14}\mathbf{O}_{2}\mathbf{N}_{2}\mathbf{S}$	(4m. 60, 35 C. 1805 [2] 303). 1) α-Rhodan-4-Nitrotriphenylmethan. Sm. 114—115° (B. 37, C. 1904 [1] 887).	607
	 2) 2-Nitrobenzyläther d. 5-Merkaptoakridin. Sm. 129—130°. (2 F PtCl₄), Pikrat (<i>J. pr.</i> [2] 68, 78 C. 1903 [2] 445). 3) 4-Nitrobenzyläther d. 5-Merkaptoakridin. Sm. 152°. (2 F 	HCl, HCl.
$\mathbf{C}_{20}\mathbf{H}_{14}\mathbf{O}_{4}\mathbf{N}_{2}\mathbf{S}$	PtCl ₄), Pikrat (<i>J. pr.</i> [2] 68 , 80 <i>C.</i> 1903 [2] 44 5). 10) Phenylsulfondianthranil. Sm. 211—212° (<i>B.</i> 36, 4185 <i>C.</i> 1903)	,
$\mathbf{C_{20}H_{14}O_7N_2S_2}$	[1] 279). 5) 4-0xy-1,1'-Azonaphtalin-3,2'-Disulfonsäure (<i>Soc.</i> 83, 212 <i>C.</i> 19	903
$\mathbf{C}_{20}\mathbf{H}_{15}\mathbf{ONS}$	[1] 638). 1) Benzoylphenylamid d. Benzolthiocarbonsäure. Sm. 108—1	109°
$\mathrm{C_{20}H_{15}O_{2}NBr_{2}}$	(C. 1904 [1] 1003). 1) N-Benzoylderivat d. Phenyl-3,5-Dibrom-2-Oxybenzylan Sm. 167—168° (163°) (A. 332, 200 C. 1904 [2] 211; B. 37,	ain. 3940
$\mathbf{C}_{20}\mathbf{H}_{15}\mathbf{O}_{2}\mathbf{NS}$	 C. 1904 [2] 1597). 6) 9-Phenylsulfonamidphenanthren. Sm. 194-195° (B. 36, 5). C. 1903 [2] 507). 	
$\mathbf{C}_{20}\mathbf{H}_{15}\mathbf{O}_{5}\mathbf{NS}_{2}$	*1) Oxyimid d. Naphtalin-1-Sulfonsäure. Sm. 102° (G. 33 [2] C. 1904 [1] 288).	309
$\mathbf{C}_{20}\mathbf{H}_{16}\mathbf{ON}_{8}\mathbf{Cl}$	1) α -Phenylamidoformylimido- α -[4-Chlorphenyl]amido- α -Phenmethan. Sm. 201° (J. pr. [2] 67, 461 C. 1903 [1] 1422).	nyl-
$\mathbf{C}_{20}\mathbf{H}_{16}\mathbf{O}_2\mathbf{N}_2\mathbf{S}$	2) 4'-[3-Nitrobenzyliden]amido-4-Methyldiphenylsulfid. Sm. 1 (J. pr. [2] 68, 272 C. 1903 [2] 993).	115°
	3) 4-[4-Nitrobenzyliden]amido-4-Methyldiphenylsulfid. Sm. 1 (J. pr. [2] 68, 273 C. 1903 [2] 993).	
$\mathbf{C}_{20}\mathbf{H}_{16}\mathbf{O}_5\mathbf{N}_4\mathbf{S}$	1) 3,4-Methylenäther d. α -Phenylhydrazon- α -[4-Sulfophenyl]s α -[3,4-Dioxyphenyl]methan. K (C. 1903 [2] 427).	
	2) 3-[4-Sulfophenyl] hydrazonmethylazobenzol - 3'- Carbonsäi K ₂ (B. 36, 3474 C. 1903 [2] 1270).	
$\mathbf{C}_{20}\mathbf{H}_{16}\mathbf{O}_{8}\mathbf{N}_{4}\mathbf{S}_{2}$	1) Disazoverbindung (aus 4,4'-Diamido-3,3'-Dimethylbiphenyl-6,6' sulfonsäure u. 1,3-Dioxybenzol). Ba (J. pr. [2] 66, 567 C. 19	903
$\mathbf{C}_{20}\mathbf{H}_{16}\mathbf{NCIS}$	[1] 519). 1) 4'-[4-Chlorbenzyliden]amido-4-Methyldiphenylsulfid. Sm. 1 (J. pr. [2] 68, 273 C. 1903 [2] 993).	
$\mathbf{C}_{20}\mathbf{H}_{16}\mathbf{N}_8\mathbf{ClS}$	1) α - Phenylamidothioformylimido - α - [4 - Chlorphenyl] amido Phenylmethan. Sm. 148—151° (J. mr. [2] 67, 462 C. 1903 [1] 14	122).
$C_{20}H_{17}ONS$	1) 4'-[2-0xybenzyliden]amido-4-Methyldiphenylsulfid. Sm. (J. pr. [2] 68, 272 C. 1903 [2] 993).	1140
	2) 4'-[4-Oxybenzyliden]amido-4-Methyldiphenylsulfid. Sm. 18 (J. pr. [2] 68, 272 C. 1903 [2] 993).	
	3) 4'-Benzoylamido-4-Methyldiphenylsulfid. Sm. 192° (J. pr 68, 267 C. 1903 [2] 993).	
$\mathbf{C}_{20}\mathbf{H}_{17}\mathbf{ON}_{2}\mathbf{Br}$	2) 8-Brom-5-[2-Oxy-I-Naphtyl]azo-1,2,3,4-Tetrahydronaphts Sm. 215° (Soc. 85, 749 C. 1904 [2] 448).	
$C_{20}H_{17}O_2N_8S$	1) Farbstoff (aus Gallocyanin u. 2, 2'-Diamidodiphenyldisulfid) (C. 1 [2] 1175).	
$\mathbf{C}_{20}\mathbf{H}_{17}\mathbf{O}_8\mathbf{NS}$	3) 2-[4-Methylphenylsulfon]amidodiphenylketon. Sm. 127° (B. 4275 C. 1903 [1] 332).	
	4) 4-[4-Methylphenylsulfon]amidodiphenylketon. Sm. 184° (Soc. 398 C. 1904 [1] 1404).	
$\mathbf{C}_{20}\mathbf{H}_{18}\mathbf{ON}_{2}\mathbf{Cl}_{2}$	1) Verbindung (aus s-Dichlordimethyläther u. Chinolin). + P + 2 AuCl _s (A. 334, 66 C. 1904 [2] 949).	
$C_{20}H_{18}ON_2S$	3) 4-Methylphenyläther d. α-Phenyl-β-[4-Merkaptophenyl]ha stoff. Sm. 190° (J. pr. [2] 68, 270 J. 1903 [2] 993).	
$\mathbf{C}_{20}\mathbf{H}_{18}\mathbf{ON}_{4}\mathbf{S}$	2) α -[β -Phenylthioureido]- $\alpha\beta$ -Diphenylharnston. Sm. 170° (B . 1368 C . 1903 [1] 1342).	
$\mathbf{C}_{20}\mathbf{H}_{18}\mathbf{O}_{3}\mathbf{N}_{2}\mathbf{Br}_{2}$	1) P-Dibrom-P-Di[Phenylamido]-1,2-Benzochinonmonoäthylhe acetat. Sm. 143° u. Zers. (B. 35, 3853 C. 1903 [1] 26).	
C ₂₀ H ₁₈ O ₄ N ₄ S ₂	 Cystinphenylhydantoin. Sm. 117° (H. 39, 354°C. 1903 [2] Kohlenstoffverb. Suppl. III. 	(UZ).

48220 IV. 1) Antranilopapaverinsulfonsäure. Sm. 233° (B. 37, 1937 C. 1904 C20H18O8N2S 1) Phenyl-2,3'-Dimethylazobenzol-4'-Jodoniumehlorid. Zers. bei $C_{20}H_{18}N_2ClJ$ 146°. 2 + PtCl₄ (J. pr. [2] 69, 324 C. 1904 [2] 35).
1) Phenyl-2,3'-Dimethylazobenzol-4'-Jodoniumbromid. C₂₀H₁₈N₂BrJ u. Zers. (J. pr. [2] 69, 325 C. 1904 [2] 35). 1) Phenyl-2, 3'-Dimethylazobenzol-4'-Jodoniumhydroxyd. Salze $C_{20}H_{19}ON_2J$ siehe (J. pr. [2] 69, 324 C. 1904 [2] 35). Phenylsemicarbazid d. 6-Phenylsemicarbazid opyridin-3-Carbon-säure. Sm. 170—171°. Pikrat (B. 36, 1113 C. 1903 [1] 1184). C20H19ON7S2 Methylamid d. α-Oxytriphenylmethan-2-Sulfonsäure. Sm. 194 bis 195° (B. 37, 3267 C. 1904 [2] 1031).
 Aethylester d. 2-Phenylimido-5-Benzoxyl-2,3-Dihydro-1,3,4-C20H19O3NS C20H19O4N3S Thiodiazol-3-[Aethyl- α -Carbonsäure]. Sm. 110° (C. 1904 [2] 1028). 2) Phenylamid d. 5-Phenylsulfon-4-Oxy-3-Methylphenylazo-

ameisensäure. Sm. 153-154° u. Zers. (A. 334, 193 C. 1904 [2] 835). 2) 2,4-Dimethylphenylmonamid d. Phosphorsäurediphenylester.

*1) Tetramethyläther d. 6,7-Dioxy-1-[6-Brom-3,4-Dioxybenzyl]- $\mathbf{C}_{20}\mathbf{H}_{20}\mathbf{O}_4\mathbf{NBr}$ isochinolin (Brompapaverin). HCl, Pikrat (B. 37, 3812 C. 1904 [2] 1575). 1) Cinchonidinkohlensäurechlorid. Sm. 1910 (D.R.P. 93698). — $\mathbf{C}_{20}\mathbf{H}_{21}\mathbf{O}_{2}\mathbf{N}_{2}\mathbf{C}\mathbf{l}$ *III, 641. 1) Di[Benzylamid] d. Phosphorsäuremonophenylester. Sm. 114° (A. 326, 176 C. 1903 [1] 819). $C_{20}H_{21}O_{2}N_{2}P$

Sm. 115° (A. 326, 240 C. 1903 [1] 868).

C20H20O3NP

 $\mathbf{C}_{20}\mathbf{H}_{24}\mathbf{ON}_{2}\mathbf{S}$

 $\mathbf{C}_{20}\mathbf{H}_{24}\mathbf{O}_{2}\mathbf{NJ}$

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 Di[2-Methylphenylamid] d. Phosphorsäuremonophenylester. Sm. 157.5° (A. 326, 251 C. 1903 [1] 868). $C_{20}H_{22}O_4NC1$ 1) Chlormethylat d. Papaverolintrimethyläther. Sm. 70-71° (C.1903 [1] 845). 2) Jodmethylat d. Papaverolintrimethyläther + xH₂O. Sm. 63-64° $C_{20}H_{22}O_4NJ$ (*C*. **190**3 [1] 845). 1) Methylester d. δ-Oximido-ε-[4-Chlorphenyl]hydroxylhydrazon-C₂₀H₂₂O₅N₄Cl₂

 γ -[4-Chlombourdon-Oxy- β -Methylpentan- β -Carbonsaure. Sm. 11' ... Si, ... C. 1903 [2] 1421). C. 1903 [2] 1421). $\mathbf{C}_{20}\mathbf{H}_{22}\mathbf{O}_{6}\mathbf{N}_{4}\mathbf{S}_{2}$ 1) Di $[\beta$ - Phenylureïdoäthyl| disulfid - $\beta\beta$ - Dicarbonsäure (Cystin- 1) Dr. [p-Fleinylttreidoathy] (distilled - pp - Dicarbonsaure (Cystinphenylhydantoïnsäure) (H. 39, 354 C. 1903 [2] 792).
 1) Aethylphenylmonamid-Di[Phenylamid] d. Thiophosphorsäure. Sm. 140° (A. 326, 258 C. 1903 [1] 869).
 1) Bromchinin. Sm. 210°. 2 HCl + H₂O, 2 HBr + 3 H₂O, H₂SO₄ + 7 H₂O, (4 + 3 H₂SO₄, 2 HJ, J₄) (J. pr. [2] 69, 211 C. 1904 [1] 1448).
 1) Verbindung (aus 5-Oxy-4-Methyl-1-Phenyl-1, 2, 3-Triazol). Sm. 168° (A. 335, 95 C. 1904 [2] 1232).
 1) gr-Caprovlimidosg-Phenyllamidosg-Morley (A. 385). $C_{20}H_{22}N_8SP$ $C_{20}H_{23}O_2N_2Br$ $. C_{20}H_{28}O_2N_6J$

1) α -Caproylimido- α -Phenylbenzylamido- α -Merkaptomethan. Sm.

*1) Jodbenzylat d.1,2,3,4-Tetrahydro-2-Isochinolylessigsäureäthylester. Zers. bei 154-155° (B. 36, 1158 C. 1903 [1] 1186). Jodmethylat d. Dimethylapomorphin. Sm. 1950 (B. 35, 4389 C. 1903 [1] 339) *1) Chinindibromid (J. pr. [2] 69, 209 C. 1904 [1] 1448). $\mathbf{C}_{20}\mathbf{H}_{24}\mathbf{O}_{2}\mathbf{N}_{2}\mathbf{Br}_{2}$ $\mathbf{C}_{20}\mathbf{H}_{24}\mathbf{O}_{2}\mathbf{N}_{2}\mathbf{S}\mathbf{e}_{2}$ 1) Di[2,4-Dimethylphenylamid] d. Dimethyldiselenid-aa'-Dicarbonsäure. Sm. 184° (Ar. 241, 207 C. 1903 [2] 104).

77—78° (Soc. 85, 811 C. 1904 [2] 202, 520).

2) Di[2,5-Dimethylphenylamid] d. Dimethyldiselenid-aa'-Dicarbonsäure. Sm. 180-1810 (Ar. 241, 208 C. 1903 [2] 104). C₂₀H₂₄O₂BrJ 1) Verbindung (aus Thymol) (M. 24, 77 C. 1903 [1] 767). $C_{20}H_{24}O_5NBr$ 1) Methylhydroxyd d. Acetylbrommorphin. Jodid + 2H₂O (A. 297,

217). — *III, 669. C20H25O8NBr 1) 4-Acetat d. 3, 6-Dibrom-4'-Dimethylamido-4-Oxy-2, 5-Dimethyldiphenylmethanmethylhydroxyd. Zers. bei 120°. Chlorid (A. 334,

296 C. 1904 [2] 985). $\mathbf{C}_{20}\mathbf{H}_{25}\mathbf{O_8N_2J}$ 1) Jodmethylat d. 4, 5, 6 - Trioxy - 2 - $[\beta$ - Dimethylamidoäthyl] - 1-Phenylimidomethylbenzol-6-Methyläther-4,5-Methylenäther (Anil d. Cotarninmethinmethyljodid). Sm. 1990 (B. 36, 1528 C. 1903 [2] 52).

- Menthylester d. α-Brom-α-[4-Bromphenyl]azoacetessigsäure.
 Sm. 155° (Soc. 83, 1128 C. 1903 [2] 24, 792). $\mathbf{C}_{20}\mathbf{H}_{26}\mathbf{O}_{3}\mathbf{N}_{2}\mathbf{Br}_{9}$
- C20H27O8N2CI 1) Menthylester d. α -[4-Chlorphenyl]azoacetylessigsäure. 103—105° (Soc. 83, 1123 C. 1903 [2] 24, 791).
- $\mathbf{C}_{20}\mathbf{H}_{27}\mathbf{O_{3}N_{2}Br}$ 1) Menthylester d. a-Brom-a-Phenylazoacetessigsäure. Sm. 133 bis 134° (Soc. 83, 1126 C. 1903 [2] 24, 791).
 - 2) Menthylester d. α -[4-Bromphenyl]azoacetylessigsäure. 119—121° (Soc. 83, 1122 C. 1903 [2] 23, 791).

 1) Diphenyläther d. Diisobutylamidodioxyphosphin. Fl. (A. 326,
- C20H28O2NP 156 C. 1903 [1] 761).
- Diisobutylmonamid d. Phosphorsäurediphenylester. Sm. 56° (A. 326, 186 C. 1903 [1] 820). $C_{20}H_{28}O_{8}NP$
- $\mathbf{C}_{20}\mathbf{H}_{80}\mathbf{ON}_{3}\mathbf{P}$ Dipropylmonamid-Di[4-Methylphenylamid] d. Phosphorsäure. Sm. 168° (A. 326, 185° C. 1903 [1] 820).
 - 2) Diisobutylmonamid-Di[Phenylamid] d. Phosphorsäure. 202° (A. 326, 186 C. 1903 [1] 820).
- 1) Diisobutylmonamid-Di[Phenylhydrazid] d. Phosphorsäure. Sm. $\mathbf{C}_{20}\mathbf{H}_{32}\mathbf{ON}_{5}\mathbf{P}$ 168° (A. 326, 186 C. 1903 [1] 820).

 1) Menthenbinistrosochlorid (C. 1904 [1] 1347).
- $\mathbf{C}_{20}\mathbf{H}_{36}\mathbf{O}_{2}\mathbf{N}_{2}\mathbf{Cl}_{2}$ $C_{20}H_{46}N_8SP$ 1) Diäthylmonamid - Di [Diisobutylamid] d. Thiophosphorsäure. Fl. (A. 326, 218 C. 1903 [1] 822).

- 20 V

- 1) Phenyl-4-Brombenzoylamid d. Benzolthiocarbonsäure. Sm. 120 C₈₀H₁₄ONBrS bis 121° (C. 1904 [1] 1003).
 - 2) Benzoylphenylamid d. 4-Brombenzolthiocarbonsäure. Sm. 133 bis 134° (C. 1904 [1] 1003).
- 1) 4-[4-Methylphenylsulfon]chloramidodiphenylketon. Sm. 116° C20H16O3NCIS (Soc. 85, 398 C. 1904 [1] 1404).
- $C_{20}H_{18}O_3NCl_2P$ 1) 2, 4 - Dichlorphenylmonamid d. Phosphorsäuredi [4 - Methylphenylester]. Sm. 162° (A. 326, 229 C. 1903 [1] 867).
- $C_{20}H_{18}O_3NBr_2P$ 1) 2, 4 Dibromphenylmonamid d. Phosphorsäuredi [4 Methylphenylester]. Sm. 158° (A. 326, 236 C. 1903 [1] 867).
- 1) 4-Bromphenylmonamid d. Phosphorsäuredi 4-Methylphenyl- $C_{20}H_{19}O_3NBrP$ ester]. Sm. 138° (A. 326, 233 C. 1903 [1] 867). C₂₀H₂₀ON₂Br₂P 1) 2,4-Dibromphenylmonamid-Di[4-Methylphenylamid] d. Phos-
- phorsäure. Sm. 214° (A. 326, 236 C. 1903 [1] 867).

 1) Di[Phenylamid] d. Thiophosphorsäuremonophenylester. Sm. 73° $C_{20}H_{21}ON_2SP$
- (A. 326, 206 C. 1903 [1] 821). C₉₀H₉₄O₉NClBr₀ 1) Acetat d. 3,6-Dibrom-4'-Dimethylamido-4-Oxy-2,5-Dimethyl-
- diphenylmethanchlormethylat. Sm. 205-207° (A. 334, 296 C. 1904 [2] 985). $C_{20}H_{24}O_2NBr_2J$ 1) Acetat d. 3,6-Dibrom-4'-Dimethylamido-4-Oxy-2,5-Dimethyl-
- diphenylmethanjodmethylat. Sm. 169-171 (A. 334, 289 C. 1904)
 - 2) Acetat d. 2,6-Dibrom-4'-Dimethylamido-4-Oxy-3,5-Dimethyldiphenylmethanjodmethylat. Sm. 184-185° u. Zers. (A. 334, 321 C. 1904 [2] 987)
- $C_{20}H_{26}O_3N_2ClBr$ 1) Menthylester d. α -Brom- α -[4-Chlorphenyl]azoacetessigsäure. Sm. 147—148° (Soc. 83, 1129 C. 1903 [2] 24, 792).

C₂₁-Gruppe.

- 3) 4-[4-Methylbenzyl]fluoren. Sm. 72° (M. 25, 984 C. 1904 [2] 1653). $C_{21}H_{18}$ C 86.3 — H 13.7 — M. G. 292. C21 H40
 - 1) Kohlenwasserstoff (aus Petroleum) (C. 1904 [1] 409).

- 21 II -

- *2) α-Dinaphtoxanthon (C. r. 136, 1008 C. 1903 [1] 1267; C. 1904 $C_{21}H_{12}O_2$ [2] 122).
 - *3) β -Dinaphtylenketonoxyd. Sm. 149° (C. r. 138, 1053 C. 1904 [1] 1612).

$C_{21}H_{12}O_2$	5) Dinaphtopyron. Sm. 194° (C. r. 138, 1053 C. 1904 [1] 1613). 3) α -Cumarylketo- β -Naphtofuran. Sm. 200° (B. 36, 2867 C. 1903 [2] 832).
$egin{array}{c} \mathbf{C}_{21} \mathbf{H}_{12} \mathbf{O}_{3} \\ \mathbf{C}_{21} \mathbf{H}_{13} \mathbf{N} \end{array}$	*1) 1,2,1',2'-Dinaphtakridin. Sm. 216°. HNO ₃ (B. 35, 4171 C. 1903 [1] 172; B. 36, 1028 C. 1903 [1] 1269; B. 36, 4052 C. 1904 [1] 185).
	*4) 1,2,2',3'- $\lceil \gamma \rceil$ -Naphtakridin (B. 36, 4052 C. 1904 [1] 185).
	5) 1,2,2',1'-Dinaphtakridin. Sm. 228°. HCl, HNO ₃ (B. 36, 1029 C. 1903 [1] 1269).
$C_{21}H_{14}O$	*8) Dinaphtoxanthen (C. r. 139, 600 C. 1904 [2] 1504).
$\mathbf{C}_{91}\mathbf{H}_{14}\mathbf{O}_{9}$	*4) Dinaphtoxanthydrol (C. 1904 [2] 122). 8) 9-Keto-4-[4-Methylbenzoyl]fluoren. Sm. 128° (M. 25, 982 C. 1904
$\mathbf{C_{21}H_{14}O_{3}}$	[2] 1653). 5) Methyläther d. 9-Keto-4-[4-Oxybenzoyl]fluoren. Sm. 95° (M. 25,
	986 C. 1904 [2] 1653). 6) 2-Benzoyifiuoren-2 ² -Carbonsäure. Sm. 227—230°. Ag (B. 36, 4035
	 C. 1904 [1] 168). 7) 2-Naphtylester d. 1-Oxynaphtalin-2-Carbonsäure. Sm. 138 ° (D.R.P. 43713). — *II, 988.
$\mathbf{C}_{21}\mathbf{H}_{14}\mathbf{O}_{5}$	2) Aldehyd d. 3,4-Dibenzoylbenzol-1-Carbonsäure. Sm. 98° (B. 36, 2930 C. 1903 [2] 887).
$C_{21}H_{14}O_{6}$	С 69,6 — H 3,8 — О 26,5 — M. G. 362.
21 14 - 8	1) 2',3-Lakton d. 1-Keto-3-Aethoxyl-2-[2-Oxy-1,3-Diketo-2,3-Di-
	hydro - 2 - Indenyl] - 2, 3 - Dihydroinden - 3 - Carbonsäure. Sm. 138° (B. 35, 3962 C. 1903 [1] 33).
$\mathbf{C_{21}H_{14}N_4}$	C 78,3 — H 4,3 — N 17,4 — M. G. 322.
	1) Verbindung (aus d. Verb. C ₂₁ H ₁₆ ON ₄). Sm. 231° (B. 36, 1136 C. 1903 [1] 1254).
$\mathbf{C}_{21}\mathbf{H}_{15}\mathbf{N}_3$	*1) 2,4,6-Triphenyl-1,3,5-Triazin (Soc. 85, 262 C. 1904 [1] 1005). 5) p-Tolylindophenazin. Sm. 255—255,5° (B. 35, 4335 C. 1903 [1] 293).
C21H16O	12) 1,8-Dimethyl-4,5-Diisopropylxanthen. Sm. 164,5° (C. r. 136, 1567)
2122160	C. 1903 [2] 383).
$C_{21}H_{16}O_3$	14) Lakton d. 3, 3'-Dioxytriphenylessigmonomethyläthersäure. Sm. 181 ° (B. 37, 4037 C. 1904 [2] 1600).
	15) Methylester d. 3 - Benzoylacenaphten - 3 ² - Carbonsäure. Sm. 128 ^o (A. 327, 100 C. 1903 [1] 1228).
$\mathbf{C_{21}H_{16}O_4}$	15) Triphenylessigsäure-4-Carbonsäure. Zers. bei 246—247°. Ag ₂ (B. 37, 662 C. 1904 [1] 952).
•	16) Dibenzoat d. 2.6-Dioxy-1-Methylbenzol. Sm. 101-1030 (M. 24)
$\mathbf{C}_{21}\mathbf{H}_{16}\mathbf{O}_{5}$	908 C. 1904 [1] 513). 7) 2-Keto-1,3-Dipiperonal-R-Pentamethylen. Sm. 250° (B. 36, 1504)
C TT O	0. 1903 [1] 1392).
$C_{21}H_{16}O_8$	*9) Triacetat d. Emodin. Sm. 193° (B. 35, 609 C. 1903 [1] 176). *10) Triacetat d. 3,5,7-Trioxy-2-Phenyl-1,4-Benzpyron (Tr. d. Galangin).
	Sm. 140—142° (B. 37, 2806 (), 1904 [2] 713)
	20) Triacetat d. 5,6-Dioxy-2-Keto-1-[2-Oxybenzyliden]-1,2-Dihydro-
	benzfuran. Sm. 160° (B. 29, 2433). — *III, 533. 21) Triacetat d. 5,6-Dioxy-2-Keto-I-[3-Oxybenzyliden]-I,2-Dihydro-
	66-167 (B. 29, 2433) - *TTT 633
_	22) Triacetat d. 5,6-Dioxy-2-Keto-1-[4-Oxybenzyliden]-1,2-Dihydrobenzfuran. Sm. 199—201° (B. 29, 2434). — *III, 533.
,	45) Triacetat d. Aloeemodin. Sm 1700 (4π 939 494) *TT 995
	$\frac{1}{2}$ 111acctat d. 5,0-Dioxy-2-[4-Oxypheny]-1,4-Rengnyron Sm 1600
	25) Triacetat d. 3,7-Dioxy-2-[3-Oxyphenyll-1.4-Benzhyron Sm 1600
,	(B. 37, 4101 C. 1904 [2] 1009). 26) Triacetat d. 3,7-Dioxy-2-[4-Oxyphenyl]-1 4-Rengovron Sm. 1500
	27) Triacetat d. 3.7.8-Trioxy-2-Phenyl-1 4-Bengapuron Sm. 2101
$\mathbf{C}_{21}\mathbf{H}_{16}\mathbf{N}_2$	*3) 1,3,5 - Triphenylpyrazol. Sm. 139.5° (C. r. 136, 1264 C 1903 [2]
	123). *5) 2,4,5-Triphenylimidazol. Sm. 272° (B. 35, 4140 C. 1903 [1] 295).
• •	15) γ-Phenylhydrazon-αγ-Diphenylpropin. Sm. 150° (Soc. 85, 1326) C. 1904 [2] 1645).
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- $C_{21}H_{16}N_4$ 4) 5-Benzylidenamido-1,4-Diphenyl-1,2,3-Triazol. Sm. 175° (B. 35, 4059 C. 1903 [1] 171).
- *10) 3,7-Dimethyl-5-Phenylakridin. Sm. 172°. Bichromat (B. 36, 1020 C21H17N C. 1903 [1] 1268).
 - 11) 10-Methyl-5-Benzyliden-5,10-Dihydroakridin. Sm. 141° (B. 37, 1566 C. 1904 [1] 1447; B. 37, 3398 C. 1904 [2] 1317).
- C21 H17 N3 10) 3,5-Diphenyl-1-[2-Methylphenyl-1,2,4-Triazol? (J. pr. [2] 67, 484 C. 1903 [2] 250).
 - 11) 3,5-Diphenyl-1-[4-Methylphenyl]-1,2,4-Triazol. Sm. 108—109° (J. pr. [2] 67, 487 C. 1903 [2] 250).
 2) α-Chlor-αγγ-Triphenylpropen. Sm. 91° (Am. 29, 358 C. 1903 [1]
- α-Chlor-αγγ-Triphenylpropen. S
 1180; Am. 31, 644 C. 1904 [2] 445). $C_{21}H_{17}C1$
- *2) 5-Keto-\$\alpha \text{t}\$ -\text{Diphenyl-ay} \text{\$\gamma\$}\$ -\text{Nonatetra\text{en.}} + 1(2) \text{HCl}, + 2 \text{FeCl}_3(0.1903) \\ [2] 284; \ B. 37, 3671 \ \text{\$\gamma\$}\$. 1904 [2] 1569). C21H18O
 - 6) γ -Keto- $\alpha\alpha\gamma$ -Triphenylpropan. Sm. 96° (Am. 29, 354 C. 1903 [1] 1180; Am. 31, 649 C. 1904 [2] 446).
- *9) Acetat d. (a-Oxytriphenylmethan. Sm. 87—88° (B. 36, 3926 C. 1904 $C_{21}H_{18}O_{2}$ [1] 96).
 - 15) γ -Oxy- $\gamma\gamma$ -Diphenyl- α -[2-Oxyphenyl]propen. Sm. 164—166° (B. 37, 496 C. 1904 [1] 805).
 - 16) α -Oxy- γ -Keto- $\alpha\alpha\gamma$ -Triphenylpropan. Sm. 126—127° (B. 37, 2640) C. 1904 [2] 529).
 - 17) Aethyläther d. 9-Oxy-9-Phenylxanthen. Sm. 102-103 (B. 37, 2934) C. 1904 [2] 1142).
 - 18) Methylester d. Triphenylmethan-2-Carbonsäure. Sm. 98° (C. r. 139, 12 C. 1904 [2] 530).
- *14) 4-Acetat d. a,4-Dioxytriphenylmethan. Sm. 139° (B. 36, 3252) $C_{21}H_{18}O_{3}$ C. 1903 [2] 884).
- *4) norm. Propylester d. Pulvinsäure (C. 1903 [2] 121). $C_{21}H_{18}O_5$ 5) Diacetat d. stab. γ-Keto-αs-Di[4-Oxyphenyl]-αδ-Pentadiën. Sm. 165—166° (B. 36, 131 C. 1903 [1] 457).
- Sm. 238° (Soc. 81, 1579 C. 1903 [1] $\mathbf{C}_{21}\mathbf{H}_{18}\mathbf{O}_{6}$ *5) Triacetat d. Chrysarobin.
- 34, 167). Sm. 183—185° *6) β -Trimethyläther d. Dehydrobrasilinmonacetat. (B. 37, 631 C. 1904 [1] 955; M. 25, 881 C. 1904 [2] 1312).
- 3) Triacetat d. 3,6-Dioxy-2-[3-Oxyphenyl]-1,4-Benzpyron. C21H18O8 bis 127° (B. 37, 960 C. 1904 [1] 1160).
- 4) Triacetat d. Butin. Sm. 123-125° (C. 1903 [1] 1415; 1904 [2] 451). 17) Di[2-Naphtylamido] methan. Sm. 104° (B. 35, 4169 C. 1903 [1] 172).
- $C_{21}H_{18}N_2$ 18) 3-[4-Dimethylamidophenyl]- β -Naphtochinolin. Sin. 245° (B. 37, 1743 C. 1904 [1] 1599).
 - 19) 3,7-Dimethyl-5-[3-Amidophenyl]akridin. Sm. 273° (B. 36, 1024 C. 1903 [1] 1268).
 - 20) 3,7-Dimethyl-5-[4-Amidophenyl]akridin. Sm. 268° (B. 36, 1023) C. 1903 [1] 1268).
- 10) 3-[Methylphenylamido]-1,5-Diphenyl-1,2,4-Triazol. Sm. 202—2030 $C_{21}H_{18}N_4$ u. Zers. (Am. 29, 81 C. 1903 [1] 523).
 - 11) 3-[4-Methylphenyl]amido-1, 5-Diphenyl-1, 2, 4-Triazol. Sm. 227 bis 228° (Am. 29, 81° C. 1903 [1] 523; Am. 32, 367 C. 1904 [2] 1507). C 88,4 - H 6,7 - N 4,9 -M. G. 285.
- C21H19N 1) 3,7-Dimethyl-5-Phenyl-5,10-Dihydroakridin (B. 36, 1020 C. 1903 [1] 1268)
- 4) 4'-[4-Methylphenylimido] methyl-4-Methylazobenzol. Sm. 170-1710 $C_{21}H_{19}N_8$ (B. 36, 2311 C. 1903 [2] 429).
 - 5) 2,6-Di[β-4-Amidophenyläthenyl]pyridin. Sm. 146° (HCl, HgCl₂), (2HCl, PtCl₄) (B. 36, 1689 C. 1903 [2] 47).
 1) α-Chlor-4, 4'-Dimethyltriphenylmethan. Sm. 106—107° (B. 37, 1631
- C21H19Cl C. 1904 [1] 1648).
- *5) Aethyläther d. 4-Oxytriphenylmethan (B. 36, 3571 C. 1903 [2] 1375). $C_{21}H_{20}O$ 7) β -Oxy- $\alpha\beta\gamma$ -Triphenylpropan. Sm. 86—87° (B. 37, 1456 C. 1904 [1] 1353).
 - 8) α -Oxy-4,4'-Dimethyltriphenylmethan. Sm. 79-80° (B. 37, 1631) C. 1904 [1] 1648).

21 11.	
$\mathbf{C}_{21}\mathbf{H}_{20}\mathbf{O}$	9) Methyläther d. 4-Oxy-3-Methyltriphenylmethan. Sm. 80-81° (B. 36, 3562 C. 1903 [2] 1374).
$\mathbf{C}_{21}^{\top}\mathbf{H}_{20}O_2$	5) $\alpha \beta$ -Dioxy- $\alpha \beta$ -Diphenyl- α -[4-Methylphenyl]äthan. Sm. 168° (B. 37, 2763 C. 1904 [2] 708).
	6) Dimethyläther d. 3,4-Dioxytriphenylmethan. Sm. 110,5° (B. 37, 3333 C. 1904 [2] 1050).
$\mathbf{C}_{21}\mathbf{H}_{20}\mathbf{O}_{8}$	6) 3,4-Dimethyläther d. α ,3,4-Trioxytriphenylmethan. Sm. 151,5° (B. 37, 3332 C. 1904 [2] 1050).
	7) 4,4'-Dimethyläther d. α,4,4'-Trioxytriphenylmethan. Sm. 76-77° (B. 36, 2787 C. 1903 [2] 881).
$C_{21}H_{20}O_4$	3) Lakton d. α -Oxy- γ -Keto- β -Phenyl- α -[4-Isopropylphenyl] butan- β -Ketocarbonsäure. Sm. 120° (A. 333, 240 C. 1904 [2] 1390).
	4) isom. Lakton d. α -Oxy- γ -Keto- β -Phenyl- α -[4-Isopropylphenyl]-butan- β -Ketocarbonsäure. Sm. 158° (A. 333, 253 C. 1904 [2] 1391).
$\mathbf{C}_{21}\mathbf{H}_{20}O_5$	2) 3,4-Dimethyläther d. α , 3,4,3',4'-Pentaoxytriphenylmethan. Sm. 73-74° (B. 37, 3331 C. 1904 [2] 1050).
	3) 2-Keto-1,3-Divanillal-R-Pentamethylen. Sm. 210° (B. 36, 1503 C. 1903 [1] 1352).
	4) Lakton d. s-Keto- γ -Acetoxyl- δ -Oxy- γ δ -Diphenylhexan- β -Carbonsäure. Sm. 140° (Soc. 83, 299 C. 1903 [1] 878).
$\mathbf{C}_{21}\mathbf{H}_{20}\mathbf{O}_{6}$	*1) Curcumin. K (Soc. 83, 140 C. 1903 [1] 89, 466; Soc. 85, 63 C. 1904 [1] 381, 729).
	9) a-Pentamethyläther d. Pentaoxybrasan. Sm. 167° (B. 36, 2201 C. 1903 [2] 382; B. 36, 3715 C. 1904 [1] 39).
	10) β-Pentamethyläther d. Pentaoxybrasan. Sm. 174° (175—176°) (B. 36, 2205 C. 1903 [2] 382; B. 36, 3715 C. 1904 [1] 39).
$\mathbf{C}_{21}\mathbf{H}_{20}\mathbf{O_7}$	4) γ^6 -Acetat d. γ -Keto- γ -[2,4,6-Trioxyphenyl]- α -[2,4-Dioxyphenyl]-propen - α^2 , α^4 , γ^2 , γ^4 - Tetramethyläther. Sm. 118—119° (B. 37, 7!)4
	C. 1904 [1] 1159. 5) γ^0 -Acetat d. γ -Keto- γ -[2,4,6-Trioxyphenyl]- α -[3,4-Dioxyphenyl]-
•	propen- a^3 , a^4 , γ^2 , γ^4 -Tetramethyläther. Sm. 107° (B. 37, 794 C. 1904 [1] 1158).
	 6) 3-Acetat d. 3,7-Dioxy-2-[3,4-Dioxyphenyl]-1,4-Benzpyron-2*,24-Dimethyläther-7-Aethyläther. Sm. 162—163° (B. 37, 789 C. 1904)
C21 H20 O9	[1] 1157). *4) Barbaloin + 1½(4)H₂() (Bl. [3] 27, 1225 C. 1903 [1] 401).
	*5) Isobarbaloïn + 3(4) II ₂ () (C. 1903 [1] 235). 7) Acetat d. 1, 2, 3, 5, 6, 7- Hexaoxy - 9, 10 - Anthrachinonpentamethyl-
$C_{21}H_{20}N_2$	äther. Sm. 179—180° (C. 1904 [2] 709). *2) α -Benzylimido - α -Methylphenylamido - α -Phenylmethan. Sm. 89
	bis 90° (Soc. 83, 327 C. 1903 [1] 581, 876; B. 37, 2681 C. 1904 [2] 521).
	14) α-Phenylimido-4-Dimethylamidodiphenylmethan. Sm. 151° (D.R.P. 41751). — *III, 150.
	15) α -[β -Phenyläthyliden]- β -Phenyl- β -Benzylhydrazin. Sm. 83° (C. r. 137, 717 C. 1903 [2] 1433).
	16) α - 2-Methylbenzyliden - β -Phenyl- β -Benzylhydrazin. Sm. 87° (U , r . 137, 717 U . 1903 [2] 1433).
	17) α - [4 - Methylbenzyliden] - β - Phenyl - β - Benzylhydrazin. Sm. 140° (C. r. 137, 717 C. 1903 [2] 1433).
$egin{array}{l} \mathbf{C_{21}H_{21}N} \\ \mathbf{C_{21}H_{22}O_{8}} \end{array}$	*3) Tribenzylamin. Benzolsulfons. Salz (B. 37, 4137 C. 1904 [2] 1713). 4) Aethylester d. γ -Benzoylmethyl- α -Phenyl- α -Buten- δ -Carbonsäure.
$\mathbf{C}_{21}\mathbf{H}_{22}\mathbf{O}_{5}$	Sm. 75-76° (C. 1903 [2] 944). 9) Dimethyläther d. Verb. C ₁₉ H ₁₈ O ₅ . Sm. 131° (M. 24, 215 C. 1903
$C_{21}\mathbf{H}_{22}O_7$	[2] 38).
	3) Triäthyläther d. Quercetin. Sm. 123—124°. K ₂ (Ar. 242, 238 C. 1904 [1] 1652).
$egin{array}{c} \mathbf{C_{21}H_{22}O_8} \\ \mathbf{C_{21}H_{22}O_{10}} \end{array}$	 3) Acetylbarbatinsäure. Sm. 172° (J. pr. [2] 68, 14 U. 1903 [2] 511). 2) Dibenzoylchitoheptonsäure. Sm. 117-120° (B. 35, 4022 C. 1903).
$\mathbf{C}_{21}\mathbf{H}_{22}\mathbf{N}_2$	[1] 392). 10) 4,4'-Diamido-3,3'-Dimethyltriphenylmethan. Sm. 121—122° (C.1904)
	[2] 227). 11) 4,4'-Di[Methylamido]triphenylmethan. Sm. 104° (B. 37, 039 C. 1904. [1] 950).

- 12) Verbindung (aus 2-Methylindol u. Propionaldehyd). Sm. 180° (B. 36, $C_{21}H_{22}N_2$ 4326 C. 1904 [1] 462).
- 7) α-Imido-α-[4-Dimethylamidophenyl]-α-[4-Aethylamido-1-Naphtyl]-methan. Sm. 199—200°. HCl (B. 37, 1906 C. 1904 [2] 116). $C_{21}H_{23}N_{8}$
- $C_{21}H_{24}O_{2}$ 5) 1,8-Dimethyl-4,5-Diisopropylxanthon. Sm. 121° (C. r. 136, 1567) C. 1903 [2] 383).
- Diacetat d. 4, 4'- Dioxy 2, 5, 2', 5'- Tetramethyldiphenylmethan. Sm. 154-155° (B. 36, 1891 C. 1903 [2] 291).
 Dimethyläther d. Anhydrolariciresinol. Sm. 148,5° (M. 23, 1028) $C_{21}H_{24}O_4$
- $C_{21}H_{24}O_5$ C. 1903 [1] 288).
- 3) Aethylester d. β-Oxy-β-Phenylakryl-3,5-Diäthoxylphenyläthersäure. Sd. 263-264°₁₇ (Soc. 83, 1135 C. 1903 [2] 1060).
 2) Aldeyhyd d. Di[2,4,6-Trioxyphenyl]methan-3,3'-Dicarbonsäure. Sm. 154-155° (M. 24, 871 C. 1904 [1] 368).
 *3) Tetracetylhelicin. Sm. 142° (B. 36, 2578 C. 1903 [2] 621). C 82,9 H 7,9 N 9,2 M. G. 304.
 *3) Tetracetylhelicin. Sm. 142° (B. 36, 2578 C. 1903 [2] 621). C21H24O8
- $C_{21}H_{24}O_{11}$ $\mathbf{C}_{21}\mathbf{H}_{24}\mathbf{N}_{2}$
 - 1) $s-[2,4-Dimethylphenyl]imido-\alpha-[2,4-Dimethylphenyl]amido-\alpha\gamma-$ Pentadiën. Fl. HCl (4. 333, 325 C. 160! :) C 72,6 — H 7,2 — N 20,2 — M. G. 347.
- $C_{21}H_{25}N_5$ 1) 4-Amidophenyldi[4,6-Diamido-3-Methylphenyl]methan (C. 1903)
- [1] 884). 3) 1-Menthylester d. Naphtalin-1-Carbonsäure. Sd. 231—232 °₁₁ (A. 327, 196 C. 1903 [1] 1396). C21H26O2
- *5) Dimethyläther d. isom. Lariciresinol. Sm. 167° (M. 23, 1025 C. 1903 C21H26O6
- 2) Olivetorsäure (siehe auch C₂₇H₃₆O₈). Sm. 141° (J. pr. [2] 68, 48 C. 1903 $C_{21}H_{26}O_7$ [2] 512). C 75,4 -- H 7,8 - N 16,8 - M. G. 334. $C_{21}H_{26}N_4$
- 1) $\delta [4 Dimethylamidophenyl]imido \alpha [4 Dimethylamidophenyl]$ amido-ay-Pentadiën. HBr (J. pr. [2] 70, 49 C. 1904 [2] 1236).
- 5) Dimethyläther d. αα-Di[4-Oxyphenyl]heptan (C. 1904 [1] 1650) $C_{21}H_{28}O_{2}$ 6) 1-Menthylester d. 1,2-Dihydronaphtalin-4-Carbonsäure. Sd. 226 bis 227°₁₂ (A. 327, 197 C. 1903 [1] 1396).
 7) 1-Menthylester d. 1,4-Dihydronaphtalin-1-Carbonsäure. Sm.
 - 89-89,5° (A. 327, 198 C. 1903 [1] 1396).
- C 76,8 H 8,5 O 14,6 M. G. 328.

 1) 1-Menthylester d. γ-Keto-α-Phenyl-α-Buten-β-Carbonsäure.
 133—134° (Soc. 85, 54 C. 1904 [1] 360, 788).
 C 73,3 H 8,1 O 18,6 M. G. 344. C21 H28 O3 $C_{21}H_{28}O_4$
- 1) 1-Menthylester d. β -Acetoxyl- α -Phenylakrylsäure. Sm. 51—52° (C. 1902 [2] 208; Soc. 81, 1497 C. 1903 [1] 153). *III, 335. 2) 1-Menthylester d. Benzylacetylessigsäure. Fl. Cu (C. 1902 [2] 208;
 - Soc. 81, 1507 C. 1903 [1] 139). *III, 335. C 61,8 H 6,8 O 31,4 M. G. 408.
- C21 H28 O8 Tetraäthylester d. β-Phenylpropan-ααγγ-Tetracarbonsäure. Sd. 225 bis 230°₁₄ (J. pr. [2] 68, 162 C. 1903 [2] 759).
 Triacetat d. Saponin (Ar. 241, 616 C. 1904 [1] 170).
- $C_{21}H_{28}O_{18}$
- 1) Triäthyläther d. ααγ-Trimerkapto-αγ-Diphenylpropan. Fl. (B. 34, $C_{21}H_{28}S_8$
- 1403). *III, 169.

 2) Cannabinol. Sd. 215°_{0,5} (C. 1903 [2] 199).

 3) 1-Menthylester d. 1, 2, 3, 4-Tetrahydronaphtalin-1-Carbonsäure. C21 H80 O2
- Sd. 207°₁₀ (A. **327**, 200 C. **1903** [1] 1396). C 76,4 H 9,1 O 14,5 M. G. 330. 1) Laricopininsäure. Sm. 80° (Ar. **241**, 573 C. **1904** [1] 166). C 61,5 H 7,3 O 31,2 M. G. 410. C21H30O8
- $C_{21}H_{80}O_8$
- 1) Antiarin (siehe auch $C_{27}H_{42}O_{10}$) (C. 1903 [1] 782). C 53,2 H 6,3 O 40,5 M. G. 474.
- $C_{21}H_{80}O_{12}$ 1) Hexaäthylester d. R-Trimethylenhexacarbonsäure. Sd. 179-202 0,12 (J. pr. [2] 68, 165 C. 1903 [2] 760). C 84,0 — H 10,7 — O 5,3 — M. G. 300.
- $C_{21}H_{32}O$ 1) Verbindung (aus Borneobresk). Sm. 125° (B. 37, 4114 C. 1904 [2] 1656).
- 5) Trimethyläther d. γ-Keto-α-[2,4,5-Trioxyphenyl]-α-Dodeken. Sm. 97,5° (Ar. 242, 103 G. 1904 |1] 1008).
 1) α-Takoresen. Sm. 93-95° (Ar. 242, 397 G. 1904 [2] 528). C21 H32 O4
- C21H83O

21 11111.	400
$egin{array}{c} C_{21}H_{34}O \ C_{21}H_{34}O_{2} \ C_{21}H_{36}O \ C_{21}H_{36}O_{3} \end{array}$	3) Laktukol. Sm. 154,5° (C. 1904 [1] 1162; M. 25, 789 C. 1904 [2] 1138). 2) Acetat d. Spongosterin. Sm. 124,5° (H. 41, 114 C. 1904 [1] 996). 2) Beljoresen. Sm. 168—170° (Ar. 240, 593 C. 1903 [1] 164). C 75,0 — H 10,7 — O 14,3 — M. G. 336.
21 00 0	1) Cyklogallipharsäure. Sm. 89°. Ca, Ag, Pyridinsalz (Ar. 242, 257 C. 1904 [1] 1653).
$C_{21}H_{38}O_4$	C 71,2 — H 10,7 — O 18,1 — M. G. 354. 1) Methylester d. Acetylricinolsäure. Sd. 260° ₁₃ (B. 36, 786 C. 1903) [1] 824).
	2) Diäthylester d. Säure $C_{17}H_{80}O_4$. Sm. 26—27° (Soc. 85, 860 C. 1904) [2] 604).
$\mathbf{C_{21}H_{38}O_5}$	C $^{\circ}68,1$ — H $^{\circ}10,3$ — O $^{\circ}21,6$ — M. G. 370. 1) Diäthylester d. Säure $C_{17}H_{30}O_5$. Sm. 53° (Soc. 85, 861 C. 1904) [2] 604).
$egin{array}{c} \mathbf{C_{21}H_{40}O_2} \\ \mathbf{C_{21}H_{40}O_3} \end{array}$	4) Gynocardiasäure. Sm. 29.5° (C. 1904 [1] 1607). C 74.1 — H 11.8 — O 14.1 — M. G. 340.
-21 *** 40 * 3	 Propylester d. Ricinolsäure. Sd. 268°₁₃ (B. 36, 784 C. 1903 [1] 823). Isopropylester d. Ricinolsäure. Sd. 260°₁₀ (B. 36, 784 C. 1903 [1] 823).
$\mathbf{C}_{21}\mathbf{H}_{40}\mathbf{O}_4$	*3) α-Oleat d. αβγ-Trioxypropan. Sm. 35° (C. 1903 [1] 133; B. 36, 4343 C. 1904 [1] 434).
	4) Phellogensäure. Sm. 121°. Na. (M. 25, 284 C. 1904 [1] 1573). 5) Isophellogensäure. Sm. 100°. Na. (M. 25, 289 C. 1904 [1] 1573).
$\mathbf{C}_{21}\mathbf{H}_{42}\mathbf{O}_4$	*1) α -Stearat d. $\alpha \beta \gamma$ -Trioxypropan. Sm. 78° (73°) (C. 1903 [1] 133; B. 36, 4343 C. 1904 [1] 434).
	— 21 III —
$\mathbf{C}_{21}\mathbf{H}_{12}\mathbf{O}_2\mathbf{N}_2$	3) Azin (aus Morphenolchinon u. o-Toluylendiamin) (B. 33, 357). — *III, 322.
$\mathbf{C_{21}H_{12}O_4N_2}$	C 70,8 — H 3,4 — O 18,0 — N 7,8 — M. G. 356. 1) 2-[2-Nitrobenzyliden]amido-9,10-Anthrachinon. Sm. 216—218°
	(C. 1904 [1] 290). 2) 2-[3-Nitrobenzyliden]amido-9,10-Anthrachinon. Sm. 245—246°
	(C. 1904 [1] 290). 3) 2-[4-Nitrobenzyliden]amido-9,10-Anthrachinon. Sm. 246—249° (C. 1904 [1] 290).
$\mathbf{C_{21}H_{12}O_5N_2}$	C 67,7 — H 3,2 — O 21,5 — N 7,5 — M. G. 372. 1) 9,10-Anthrachinon-2-Azosalicylsäure. Sm. 270° u. Zers. (O. 1904)
$\mathbf{C}_{21}\mathbf{H}_{12}\mathbf{O}_7\mathbf{N}_2$	[1] 289). 3) 4,4'-Dinitro -1,1'-Dioxy -2,2'-Dinaphtylketon. Sm. 140° u. Zers. (A. 330, 105 C. 1904 [1] 1076).
$\mathbf{C_{21}H_{12}O_{9}N_{2}}$	C 57,8 — H 2,7 — O 33,0 — N 6,4 — M. G. 436. 1) Aldehyd d. 3,4-Di[?-Nitrobenzoxyl]benzol-1-Carbonsäure (B. 36, 2930 C. 1903 [2] 888).
C21H18ON	5) Akridinderivat (aus Alizarinirisol) (C. 1904 [1] 101).
$egin{array}{c} \mathbf{C_{21}H_{18}OBr} \ \mathbf{C_{21}H_{18}O_{2}N} \end{array}$	4) Dinaphtopyryloxoniumbromid (C. r. 136, 381 C. 1903 [1] 648). C 81,0 — H 4,2 — O 10,3 — N 4,5 — M. G. 311.
	1) 2-Benzylidenamido -9,10-Anthrachinon. Sm. 185—187° (C. 1904) [1] 290).
$\mathbf{C}_{21}\mathbf{H}_{18}\mathbf{O}_{8}\mathbf{N}$	5) 2 - [2 - Oxybenzyliden] amido - 9, 10 - Anthrachinon. Sm. 229—231° (C. 1904 [1] 290).
G TT 0 T	6) 2-[4-Oxybenzyliden]amido-9,10-Anthrachinon. Sm. 258° (C. 1904) [1] 290).
$C_{21}H_{13}O_4N$	3) 3-Phenyl-β-Naphtochinolin-P-Dicarbonsäure? Sm. 215—220° (C. r. 139, 298 C. 1904 [2] 714).
C ₂₁ H ₁₈ O ₆ Br	1) 2',3-Lakton d. l-Keto-3-Aethoxyl-2-[2-Brom-2-Oxy-1,3-Diketo-2,3-Dihydro-2-Indenyl]-2,3-Dihydroinden-3-Carbonsäure. Sm. 211° (B. 35, 3964 C. 1903 [1] 33).
$egin{array}{l} \mathbf{C_{21}H_{18}NCl_2} \\ \mathbf{C_{21}H_{18}NJ_2} \end{array}$	1) α-Naphtakridindichlorid. Sm. 158° (Soc. 85, 1204 C, 1904 [2] 1060).
$C_{21}H_{14}O_{2}N_{2}$	 β-Naphtakridindijodid. Sm. 270—273° (Soc. 85, 1205 C. 1904 [2] 1060). 6-Phenylazo-3-Phenyl-1, 2-Benzpyron. Sm. 205° (B. 37, 4132 C. 1904 [2] 1736).

- $C_{21}H_{14}O_3N_2$ 12) Amid d. 1,3-Diketo-2-Phenyl-1,3-Dihydroisoindol-22-Carbonsäure (Anilid d. o-Phtalimidobenzoësäure). Sm. 205° (J. pr. [2] 69, 27 C. 1904 [1] 641).
 - 13) Verbindung (aus 2-Amidobenzol-1-Carbonsaure u. Benzol-1,2-Dicarbon-
- säureimid). Sm. 180° (*J. pr.* [2] 69, 26 *C.* 1904 [1] 641). C₂₁H₁₄O₄Br₂ 1) Dibenzoat d. 3,5-Dibrom-2-Oxy-1-Oxymethylbenzol. Sm. 121—122° (A. 332, 200 C. 1904 [2] 211). C 64,6 — H 3,6 — O 24,6 — N 7,2 — M. G. 390.
- $C_{21}H_{14}O_6N_2$ 1) 4,4'-Dinitro-1,1'-Dioxy-2,2'-Dinaphtylmethan. Zers. oberh. 200°
- (A. 330, 104 C. 1904 [1] 1076).

 1) Brom-p-Tolylindophenazin. Sm. 290—291° (B. 35, 4836 C. 1903) $C_{21}H_{14}N_8Br$ [1] 293).
- $\mathbf{C}_{21}\mathbf{H}_{15}\mathbf{ON}$ *3) 2,4,5-Triphenyloxazol. Sm. 115° (B. 35, 4137 C. 1903 [1] 295). *7) 2-Oxy-1-[1-Naphtylimido]methylnaphtalin. Sm. 178° (B. 36, 1975 C. 1903 [2] 378).

 11) 2-Oxy-1-[2-Naphtylimido]methylnaphtalin. Sm. 143° (B. 36, 1975 C. 1903 [2] 378).

 - 12) 7-Oxy-2,4-Diphenylchinolin. Sm. 272° (B. 36, 4017 C. 1904 [1] 293).
- 2) γ -Keto- $\beta\gamma$ -Diphenyl- α -[2-Chlorphenyl] propen. Sm. 113° (B. 35, $C_{21}H_{15}OC1$ 3970 *C.* **1903** [1] 31).
 - 3) isom. γ -Keto- $\beta \gamma$ -Diphenyl- α -[2-Chlorphenyl] propen. Sm. 92° (B. 35, 3970 C. 1903 [1] 31).
- 9) 1-Benzylamido-9, 10-Anthrachinon. Sm. 188° (D. R. P. 144634 C. 1903 $C_{21}H_{15}O_{2}N$ [2] 750).
 - 10) Lakton d. 5-Oxy-10-Methyl-5-Phenyl-5,10-Dihydroakridin-52-Carbonsäure. Sm. 245° (B. 37, 1009 C. 1904 [1] 1276).
 - 11) Betain d. 10-Methyl-5-Phenylakridin-52-Carbonsaure. (B. **37**, 1010 C. **1904** [1] 1277).
 - 12) Methylester d. 5-Phenylakridin-5°-Carbonsäure. Sm. 173°. HJ, H₂Cr₂O₇, Pikrat (B. 37, 1007 C. 1904 [1] 1276).
- 9) 2-[4-Methylamidophenylazo]-9,10-Anthrachinon. Sm. 202-204° $C_{21}H_{15}O_{2}N_{8}$
 - (C. 1904 [1] 289). 10) Benzoat d. 5-Oxy-1,4-Diphenyl-1,2,3-Triazol. Sm. 132° (A. 335, 105 O. 1904 [2] 1232).
- 5) 4-[4-Methylphenylamido]-1-Oxy-9,10-Anthrachinon(Chinizarinblau) C21 H15 O8 N (C. 1904 [2] 339).
- 4) 2,4,6-Tri[4-Oxyphenyl]-1,3,5-Triazin. Sm. 357° corr. (B. 36, 3194 C21H15O8N8 C. 1903 [2] 956). C 67,5 — H 4,0 — O 17,2 — N 11,2 — M. G. 373.
- C21H15O4N8 1) 2,6-Di[β -4-Nitrophenyläthenyl] pyridin. Sm. 168–169°. HCl + H₂O₂ (HCl, HgCl₂), (2HCl, PtCl₄), (HCl, AuCl₃), Pikrat (B. 36, 1688 C. 1903
- [2] 47). *2) m-Trinitrohydrobenzamid (C. 1904 [1] 878). $C_{21}H_{15}O_6N_5$ 1) Gem. Anhydrid d. Benzolcarbonsäure u. Borsäure. Sm. 145° $C_{21}H_{15}O_6B$
- (B. 36, 2224 C. 1903 [2] 421). C 59.3 - H 3.5 - O 33.9 - N 3.3 - M. G. 425. $C_{21}H_{15}O_{9}N$ 1) 4-Nitro-α,?,?-Trioxydiphenylmethan-?-Dicarbonsäure (aus 4-Nitro-
- benzaldehyd u. Salicylsäure) (D. R.P. 75803). *II, 1213. 1) Gem. Anhydrid d. 2-Oxybenzol-1-Carbonsäure u. Borsäure. Sm. 258 C91 H15 O9 B
- bis 259° (B. 36, 2224 C. 1903 [2] 421). *1) 4-Phenylhydrazon-5-Keto-1, 3-Diphenyl-4, 5-Dihydropyrazol. Sm. $C_{21}H_{16}ON_4$
- 170° (B. 36, 1135 C. 1903 [1] 1254). 2) 3-Benzoylamido-1, 5-Diphenyl-1, 2, 4-Triazol. Sm. 159-160°. HCl,
 - H₂SO₄ (Am. 29, 77 C. 1903 [1] 523). 3) Verbindung (aus 4,5-Diketo-I,3-Diphenyl-4,5-Dibydropyrazol). Sm. 240
- bis 241° (B. 36, 1135 C. 1903 [1] 1254). C₂₁H₁₆OCl₂ 1) γ -Chlor- α -Keto- $\alpha\beta$ -Diphenyl- γ -[2-Chlorphenyl] propan. (B. **35**, 3969 C. **1903** [1] 31).
- $C_{21}H_{16}O_2N_2$ 10) 1-Methylamido-5-Phenylamido-9,10-Anthrachinon (D.R.P. 139581 C. 1903 [1] 680).
 - 11) 1-Methylamido-8-Phenylamido-9,10-Anthrachinon (D.R.P. 139581 C. 1903 [1] 680).
 - 12) 4-Amido-1-[4-Methylphenyl]amido-9,10-Anthrachinon (D.R.P. 125 578; D.R.P. 148 767 C. 1904 [1] 557).

 $C_{21}H_{16}O_{2}N_{2}$ 13) 2-[α -Phenylhydrazonäthyl]-3,4- β -Naphtopyron (α -Phenylhydrazon-

äthyl-6-Naphtocumarin). Sm. 209-211° u. Zers. (B. 36, 1974 C. 1903

[2] 377).

14) 3,7-Dimethyl-5-[3-Nitrophenyl]akridin. Sm. 268° (B. 36, 1024) C. 1903 [1] 1268). 15) 3,7-Dimethyl-5-[4-Nitrophenyl]akridin. Sm. 2650 (B. 36, 1023) C. 1903 [1] 1268) 16) Benzoat d. 2-[2-Oxymethylphenyl]indazol. Sin. 87,50 (C. r, 138. 9) Tribenzoylhydrazin. Sm. 206° (J. pr. [2] 69, 156 C. 1904 [1] 1274; J. pr. [2] 70, 274 C. 1904 [2] 1544; J. pr. [2] 70, 296, 300 C. 1904 [2] 1566) 1277 C. 1904 [2] 121). $C_{21}H_{16}O_3N_2$ 10) 6-Oxyazobenzol-3-[α-Phenylakrylsäure]. Sm. 247° (B. 37, 4133 C. 1904 [2] 1736). C₂₁H₁₆O₂Br₂ 3) Acetat d. 3,5-Dibrom-α,4-Dioxytriphenylmethan. Sm. 171—1720 (B. 34, 3078 C. 1903 [2] 884). 6) Dibenzoat d. 1,4-Dioximido - 2-Methyl-1,4-Dihydrobenzol. Zers. $\mathbf{C}_{21}\mathbf{H}_{16}\mathbf{O}_{4}\mathbf{N}_{2}$ bei 196° (G. 33 [1] 240 C. 1903 [1] 1409). $C_{21}H_{16}O_{g}Cl_{4}$ *1) Tetrachlorbarbaloin + 1\(^{1}/_{2}H_{2}O. Na₃ (C. 1903 [1] 234; Bl. [3] 27, 1227 C. 1903 [1] 401). 2) Tetrachlorisobarbaloïn + 5H₂O (O. 1903 [1] 235; O. r. 127, 236; Bl. [3] 23, 788). - *III, 454. $C_{21}H_{16}O_9Br_4$ 1) Tetrabrombarbaloin $+4H_2O$ (C. 1903 [1] 235). -*III, 453. 2) Tetrabromisobarbaloin. Sm. 191° (B. 23 [2] 207; C. 1898 [2] 582; Bl. [3] 21, 670 Anm.; C. 1903 [1] 235). — *III, 454. *2) s-2, 2-Dinaphtylthioharnstoff. Sm. 192-1936; Sd. 2930 (C. r. 139, $\mathbf{C}_{21}\mathbf{H}_{16}\mathbf{N}_{2}\mathbf{S}$ 451 C. 1904 [2] 1114).

1) 5-Imido-4-[4-Chlorphenyl]-1,3-Diphenyl-4,5-Dihydropyrazol. $\mathbf{C}_{21}\mathbf{H}_{16}\mathbf{N}_{3}\mathbf{C}\mathbf{l}$ Sm. 149° (J. pr. [2] 67, 380 U. 1903 [1] 1356). 2) 1-[4-Chlor-2-Methylphenyl]-3,5-Diphenyl-1,2,4-Triazol. Sm. 103 bis 104° (J. pr. [2] 67, 502 C. 1903 [2] 251). 8) α -[oder β]-Phenylamido- γ -Keto- $\alpha\gamma$ -Diphenylpropen. Sm. 103—104° (Soc. 85, 1326 C. 1904 [2] 1645). $C_{21}H_{17}ON$ 9) 3-Methyl-1,1-Diphenyl-2,4-Benzoxazin. Sm. 134,5-137° (B. 37, 3197 C. 1904 [2] 1472). C21H17ON8 10) Verbindung (aus o-Amidobenzaldehyd) (B. 36, 835 C. 1903 [1] 1028). $C_{21}H_{17}OBr$ 1) β -Brom- γ -Keto- $\alpha\alpha\gamma$ -Triphenylpropan. Sm. 173° (Am. 29, 358) C. 1903 [1] 1180; Am. 31, 652 C. 1904 [2] 446). *1) Benzilimid. Sm. 138—139° (B. 35, 4138 C. 1903 [1] 295). $C_{21}H_{17}O_{2}N$ *9) 6-Benzoylamido-3-Methyldiphenylketon. Sm. 118° (Soc. 85, 596 C. 1904 [1] 1554). 12) γ -[3-Oxyphenyl]imido- α -Oxy- $\alpha\gamma$ -Diphenylpropen. Sm. 172° (B. 36, 4017 *C*. **1904** [1] 293). 13) Phenylamidodibenzoylmethan. Sm. 168-169° (B. 37, 2528 C. 1904 [2] 336). 14) Benzoyl-4-Methylbenzoylamidobenzol. Sm. 159—160° (C. r. 137, 714 O. 1903 [2] 1428). 15) 4-Benzoylamido-3-Methyldiphenylketon. Sm. 158° (Soc. 85, 593 C. 1904 [1] 1554). 16) o,p,ana-Trimethylchinophtalon. Sm. 284° (B. 37, 3017 C. 1904 [2] 1409). 17) o,p,ana-Trimethylisochinophtalon. Sm. 236° (B. 37, 3017 C. 1904 [2] 1409). 18) Benzoat d. 1-Oxy-2-[2-Pyridyl]-2,3-Dihydroinden. Sm. 36-37° (B. 36, 1656 C. 1903 [2] 39). Phenylamidoformiat d. 2-Oxy-αα-Diphenyläthen. Sm. 105° (und 86°) (B. 36, 4000 C. 1904 [1] 174). $C_{21}H_{17}O_2N_8$ *6) s-Dibenzoylphenylguanidin. Sm. 187° (B. 37, 1683 C. 1904 [1] 1491). $C_{21}H_{17}O_{8}N$ 20) Methylhydroxyd d. 5-Phenylakridin-52-Carbonsäure. Jodhydrat, Bichromat, Pikrat (B. 37, 1010 C. 1904 [1] 1277). 21) Aethylester d. Naphtostyrilphenylessigsäure + H₂O. Sm. 105-106 (111—112° wasserfrei) (B. 35, 4222 C. 1903 [1] 166). 22) Benzoat d. 3-Benzoylamido-l-Oxymethylbenzol. Sm. 113-114° (B. 37, 3941 C. 1904 [2] 1597).

- 23) α -Benzoat d. β -Oximido- α -Oxy- $\alpha\beta$ -Diphenyläthan. (Soc. 85, 453 C. 1904 [1] 954, 1445). Sm. 148°
 - 24) β-Benzoat d. β-Oximido-α-Oxy-αβ-Diphenyläthan. Sm. 165—166° (Soc. 85, 451 C. 1904 [1] 954, 1445).
 25) 2-Methylphenylamid d. 2-Benzoxylbenzol-1-Carbonsäure. Sm. 136°
 - (G. 34 [1] 272 C. 1904 [1] 1499).
 - 26) Phenyl-4-Methoxylbenzoylamid d. Benzolcarbonsäure. Sm. 162
- bis 163° (Am. 30, 36 C. 1903 [2] 363).
 6) N-Benzoat d. α-Oximido-α-Phenylazo-α-[4-Oxyphenyl]methan-4-Methyläther. Sm. 129—129,5° (B. 36, 67 C. 1903 [1] 451). $C_{21}H_{17}O_{3}N_{3}$
 - 7) Phenylamid d. 4-Benzoxyl-3-Methylphenylazoameisensäure. Sm. 150° u. Zers. (A. 334, 193 C. 1904 [2] 835).
- 3) 4-Methyläther d. 5-Nitro-3-Benzoxyl-4-Oxy-1-Phenylhydrazon-methylbenzol. Sm. 205-206° (B. 35, 4399 C. 1903 [1] 341). $C_{21}H_{17}O_5N_3$
 - 4) Semicarbazon d. Verb. $C_{20}H_{14}O_5$. Sm. 239° (B. 36, 3233° C. 1903) [2] 941).
- H 3,9 O 22,1 N 16,1 M. G. 435. $C_{21}H_{17}O_6N_5$ C 57,9 -1) $\alpha \alpha$ -Di[4-Nitrobenzyl]- β -[2-Nitrobenzyliden]hydrazin. Sm. 120° (R. 22, 439 C. 1904 [1] 15).
- $C_{21}H_{17}O_6Br$ 1) Acetylbromtrimethyldehydrobrasilin. Sm. 271-274° (B. 36, 399 C. 1903 [1] 587). — *III, 481.
- $\mathbf{C_{21}H_{17}O_9Br_3}$ 1) Tribrombarbaloin (C. 1903 [1] 235). — *III, 453.
- 6) 1,5-Diphenyl-4-[2-Methylphenyl]-4,5-Dihydro-1,2,4-Triazol-3,5-Sulfid. Sm. 249-250° u. Zers. (J. pr. [2] 67, 221 O. 1903 [1] 1261).
 7) 1,5-Diphenyl-4-[4-Methylphenyl]-4,5-Dihydro-1,2,4-Triazol-3,5-C21H17N3S

 - Sulfid. Sm. 301—303° u. Zers. (J. pr. [2] 67, 220 C. 1903 [1] 1261). 8) 1,5-Diphenyl-4-Benzyl-4,5-Dihydro-1,2,4-Triazol-3,5-Sulfid. Sm. 236° (J. pr. [2] 67, 218 C. 1903 [1] 1260).
 - 9) 4,5-Diphenyl-1-[4-Methylphenyl]-4,5-Dihydro-1,2,4-Triazol-3,5-Sulfid. Sm. 340° (J. pr. [2] 67, 258 C. 1903 [1] 1265).
- 17) β -Imido- β -Phenylbenzoylamido- α -Phenyläthan. (C. 1903 [2] 831). C21H18ON2
 - 18) α Phenylimido α Benzoylamido α [4 Methylphenyl] methan. Sm. 126° (C. 1903 [2] 831).
 - 19) α -[2-Methylphenyl]imido- α -Benzoylamido- α -Phenylmethan. Sm. 111—113° (C. 1903 [2] 831).
 - 20) N-Aethyl-o-Methylchinophtalin. Sm. 198° (B. 36, 3919 C. 1904 [1] 98).
- C21 H18 ON4 4) Methyläther d. 3-[4-Oxyphenyl]amido-1,5-Diphenyl-1,2,4-Triazol. Sm. 224—225° (Am. 32, 368 C. 1904 [2] 1507).
- $C_{21}H_{18}OS$ 3) Aethyläther d. 9-Oxy-9-Phenylthioxanthen. Sm. 76-77° (B. 37, 2937 C. 1904 [2] 1143).
 - 4) Verbindung (aus Dibénzylsulfoxyd u. Benzaldehyd). Sm. 203° (B. 36, 544 C. 1903 [1] 707).
- $C_{21}H_{18}O_{2}N_{2}*16$) $\alpha\beta$ -Dibenzoyl- α -Benzoylhydrazin. Sm. 152° (*J. pr.* [2] 70, 278 *O.* 1904
 - 20) 4-Oxy-3-Benzoylphenylhydrazonmethyl-1-Methylbenzol. Sm. 155° (B. 35, 4107 C. 1903 [1] 150).
 - 21) $\alpha \varepsilon$ -Diketo- γ -Phenyl- $\alpha \varepsilon$ -Di[2-Pyridyl]pentan. Sm. 152° (B. 35, 4062) C. 1903 [1] 91).
 - 22) Benzoat d. 4-Oxy-3-Phenylhydrazonmethyl-I-Methylbenzol. Sm. 161° (B. 35, 4107 C. 1903 [1] 150).
- $C_{21}H_{16}O_2N_4$ 14) α -Imido- α -Benzoylamido- α - β -Benzoyl- β -Phenylhydrazido]methan.
- Sm. 156° (Am. 29, 79 C. 1903 [1] 523).

 1) Dibenzyläther d. 3,6-Dimerkapto-2-Methyl-1,4-Benzochinon. Sm. 67-68° (A. 336, 166 C. 1904 2 : 3361). $C_{21}H_{18}O_2S_2$
- C₂₁H₁₈O₃N₂ 13) 4-Methyläther d. 3-Benzoxyl-4-Oxy-1-Phenylhydrazonmethylbenzol. Sm. 187° (B. 35, 4399 C. 1903 [1] 341).
 - 14) 4-Oxyazobenzol-2-[α-Phenylpropionsäure]. Sm. 177° (B. 37, 4134) C. 1904 [2] 1736).
 - 15) 4-Oxyazobenzol-3-[α-Phenylpropionsäure], Sm. 152-153° (B. 37, 4133 C. 1904 [2] 1736).
 - 16) 6-Oxyazobenzol-3-[α-Phenylpropionsäure]. Sm. 159° (B. 37, 4135 C. 1904 [2] 1736).

 $C_{21}H_{18}O_3N_2$ 17) 8-[2-Oxy-1-Naphtyl]azo-1,2,3,4-Tetrahydronaphtalin-1-Carbonsäure (B. 35, 4224 C. 1903 [1] 166). 18) Säure (aus d. Verb. C₂₃H₂₄O₄N₂). Sm. 180° (B. 36, 2125 C. 1903 [2] 365). 19) Phenylamid d. α-Phenylamidoformoxyl-α-Phenylessigsäure. Sm. 163° (Bl. [3] 29, 127 C. 1903 [1] 564). 2) 2-Oxy-3, 5-Di[Phenylazo] benzol-1-Propionsäure. Sm. 1940 (B. 37, $C_{21}H_{18}O_8N_4$ 4130 C. 1904 [2] 1735). 3) 3-Oxy-4,6-Di[Phenylazo]benzol-1-Propionsäure. Sm. 179-18() (B. 37, 4131 C. 1904 [2] 1735). $\mathbf{C}_{21}\mathbf{H}_{18}\mathbf{O}_{4}\mathbf{N}_{2}$ 6) αs-Di[Phtalylamido] pentan. Sm. 186° (B. 37, 3581 C. 1904 [2] 1407). C 62,1 - H 4,4 - O 19,7 - N 13,8 - M. G. 406. $C_{21}H_{18}O_5N_4$ 1) $\alpha\alpha$ - Di [4 - Nitrobenzyl] - β -[2 - Oxybenzyliden] hydrazin. Sm. 1830 (R. 22, 439 C. 1903 [2] 15). $C_{21}H_{18}O_8N_2$ C 59,1 - H 4,2 - O 30,0 - N 6,6 - M. G. 426.1) Diacetat d. 2-Keto-5,6-Dioxy-1-[3-Nitro-4-Dimethylamidobenzyliden]-1,2-Dihydrobenzfuran. Sm. 212° (B. 37, 825 C. 1904 [1] 1152). 2) Jodmethylat d. 5-Benzylakridin (B. 37, 1565 C. 1904 [1] 1447). Co, H, NJ 1) trimolec. Anhydroformaldehyd - 4 - Chloranilin. Sm. 157° (B. 36, $C_{21}H_{18}N_3Cl_3$ 47 C. 1903 [1] 505). 2) isom. trimolec. Anhydroformaldehyd - 4 - Chloranilin. Sm. 225° (B. 36, 47 C. 1903 [1] 505). 19) 4-Methylbenzylamidodiphenylketon. Sm. 78-70° (D.R.P. 41751). $C_{21}H_{19}ON$ - *III, *147*. 20) η-Oximido-ααη-Triphenylpropan. Sm. 131° (Am. 31, 650 C. 1904 [2] 446). 21) 2-Acetylamidotriphenylmethan. Sm. 154-155° (B. 37, 3199 C. 1904 [2] 1472). 22) Methylhydroxyd d. 5 - Benzylakridin. Jodid, Pikrat (B. 37, 1565 C. 1904 [1] 1447) 23) Phenylamid d. $\beta\beta$ -Diphenylpropionsäure. Sm. 167° (Am. 31, 651 C. 1904 [2] 446). $C_{21}H_{19}ON_8$ 8) α -Benzylldenamido- β -Phenyl- α -Benzylharnstoff. Sm. 152° (B. 37, 2327 C. 1904 [2] 313). 9) α -Benzylidenamido- α -[2-Methylphenyl]- β -Phenylharnstoff. Sm. 118° (B. 36, 1371 C. 1903 [1] 1342). 10) α -Benzylidenamido- α -[4-Methylphenyl]- β -Phenylharnstoff. Sm. 176 bis 177° (B. 36, 1374 C. 1903 [1] 1343). $C_{21}H_{19}O_2N$ *8) β -Benzoylamido- α -Oxy- $\alpha\beta$ -Diphenyläthan. Sm. 235—236° (B.~37,~3942C. 1904 [2] 1597). 11) isom - β - Benzoylamido - α - Oxy - $\alpha\beta$ - Diphenyläthan (N-Benzoylisodiphenyloxyäthylamin). Sm. 233° (B. 37, 3048 C. 1904 |2| 1597). 12) $r-\beta-[2-Oxybenzyliden]$ amido- $\alpha-Oxy-\alpha\beta-Diphenyläthan. Sm. 1136$ (B. 36, 2342 Anm. C. 1903 [2] 410). 13) α -Oxy-2-Acetylamidotriphenylmethan. Sm. 192° (B. 37, 3197 C. 1904 [2] 1472). 14) Acetyltriphenylmethylhydroxylamin. Sm. 98-102° (B. 37, 3152 C. 1904 [2] 1047) 31, 21 C. 1904 [1] 508) 16) Phenylamidoformiat d. 2-Oxy- αa -Diphenyläthan. Sm. 99° (B. 36,

15) Phenylester d. Dibenzylamidoameisensäure. Sd. 282—284 $^{\circ}_{23}$ (Bl. [3]

4009 C. 1904 [1] 175)

17) Phenylamidoformiat d. 4-Oxy-αα-Diphenyläthan. Sm. 111° (B. 36, 4013 C. 1904 [1] 176).

18) Phenylamidoformiat d. 4-Oxy- $\alpha\beta$ -Diphenyläthan. Sm. 150° (B. 36, 4010 C. 1904 [1] 176).

19) Phenylamidoformiat d. Phenol C₁₄H₁₄O. Sm. 139° (B. 36, 3986 C. 1904 [1] 171).

C₉₁H₁₉O₂N₃ 10) 6-Phenylamido-3,4'-Dimethylazobenzol-6²-Carbonsäure? Sm. 226 bis 227° (D.R.P. 146950 C. 1903 [2] 1402; D.R.P. 150469 C. 1904

11) 4-Phenylamido-2', 3-Dimethylazobenzol-42-Carbonsäure? Sm. 217 bis 218° (D.R.P. 146950 C. 1903 [2] 1402; D.R.P. 150469 C. 1904

1) Dimethyläther d. α-Chlor-3,4-Dioxytriphenylmethan. Sm. 148,5° $C_{21}H_{19}O_{2}Cl$ (B. 37, 3333 C. 1904 [2] 1050).

- Dimethyläther d. α-Chlor-4, 4'-Dioxytriphenylmethan. Sm. 114 bis 115° (B. 36, 2787 C. 1903 [2] 882).
 Acetat d. γ-Keto-γ-[5-Diacetylamido-2-Oxyphenyl]-α-Phenylpropen. Sm. 147° (B. 37, 2827 C. 1904 [2] 704). C2, H10O5N
- 4) Diacetat d. 5, 6-Dioxy-2-Keto-1-[4-Dimethylamidobenzyliden]-1, 2-Dihydrobenzfuran. Sm. 182° (215°) (B. 29, 2434; B. 37, 823 C. 1904 C21H19O6N [1] 1151). — *III, 532.
- C 61,6 H 4,6 O 23,5 N 10,3 M. G. 409. 1) Semicarbazon d. Verb. $C_{20}H_{10}O_0$. Sm. 265° u. Zers. (B. 36, 3232) $C_{21}H_{19}O_6N_3$ C. 1903 [2] 941).
- 2) 2, 4,6 Trinitro 3,5 Di [4 Methylphenylamido] 1 Methylphenzol. Sm. 185° (R. 23, 128 C. 1904 [2] 201).
 2) Verbindung (aus d. Verb. C₁₃H₁₄O₄NJ). Zers. bei 220-270° (G. 34) $C_{21}H_{19}O_6N_5$
- C21 H10 O8 N [1] 345 C. 1904 [2] 194).
- 1) 4-Benzylidenamido-3,4'-Dimethyldiphenylsulfid. HCl (J. pr. [2] C21H19NS 68, 288 C. 1903 [2] 995).
- 3) α Benzylidenamido β Phenyl- α Benzylthioharnstoff. Sm. 132° (B. 37, 2329 C. 1904 [2] 313). $C_{21}H_{10}N_3S$
- Benzyläther d. α-[β-Phenylthioureïdo]-α-Phenylimido-α-Merkaptomethan. Sm. 98-100° (Am. 30, 177 C. 1903 [2] 872). $C_{21}H_{10}N_3S_2$
- $C_{21}H_{20}ON_2$ *19) β -Benzoyl- $\alpha\alpha$ -Dibenzylhydrazin. Sm. 166—168 0 (A. 329, 364 \circ C. 1904) 1] 442).
 - 20) Aethyläther d. α Oxy α Phenylimido α Diphenylamidomethan (Aethylisotriphenylharnstoff). Sm. 48-50° (B. 37, 965 C. 1904 [1] 1002).
 - 21) $\alpha\beta$ -Diphenyl- α -[α -Phenyläthyl]harnstoff. Sm. 94—95° (B. 37, 2693 C. 1904 [2] 519).
 - 22) α-Benzoyl-αβ-Dibenzylhydrazin. Sm. 85-87° (A. 329, 364 C. 1904
 - [1] 442). 23) α -Benzoyl- $\alpha\beta$ -Di[2-Methylphenyl]hydrazin. Sm. 123,5-124° (C. r.
 - 136, 1555 C. 1903 [2] 359. 24) α-Benzoyl-αβ-Di[4-Methylphenyl]hydrazin. Sm. 189° (B. 36, 140 C. 1903 [1] 507).
- *5) 2-Oxy-3,5-Di[2-Methylphenylazo]-1-Methylbenzol. Sm. 146—147° (B. 37, 2575 C. 1904 [2] 658). C21H20ON4
- 1) Dicinnamylidenacetondihydrochlorid (B. 36, 1477 C. 1903 [1] 1348). C21H20Cl2 17) Dimethyläther d. α-Phenylhdrazon-αα-Di[4-Oxyphenyl]methan.
 Sm. 123—124° (B. 36, 655 C. 1903 [1] 768). $C_{21}H_{20}O_2N_2$
- 7) 4, 4'-Di [Methylnitrosamido|triphenylmethan. Sm. 149° u. Zers. $C_{21}H_{20}O_2N_4$ (B. 37, 641 C. 1904 [1] 950).
 - 8) α-Phenylureïdo-β-Phenyl-α-Benzylharnstoff. Sm. 222 ° (B. 37, 2326
- C. 1904 [2] 312).

 2) 1,4-Di[\$\beta\$-Phenylsemicarbazon]-2-Methyl-1,4-Dihydrobenzol. Zers. bei 246° (A. 334, 191 C. 1904 [2] 835). $C_{21}H_{20}O_2N_6$
- 1) 3,6-Dibenzyläther d. 3,6-Dimerkapto-2,5-Dioxy-l-Methylbenzol. $C_{21}H_{20}O_2S_2$ Sm. 113° (A. 336, 165 C. 1904 [2] 1300).
- 2) Monophenylhydrazon d. s-Keto- δ -Acetyl- α -[3,4-Dioxyphenyl]- $\alpha\gamma$ -C21H20O8N2 Hexadiën-3,4-Methylenäther. Sm. 160-161'0 (B. 37, 1700 C. 1904 [1] 1497).
- C 67.0 H 5.3 O 12.8 N 14.9 M. G. 376. C21H20O8N4 1) α - Oxy-4, 4'-Di[Methylnitrosamido]triphenylmethan. Sm. 159° u.
- Zers. (B. 37, 644 C. 1904 [1] 951). 1) 4,4'-Dioxytriphenylmethandimethyläther- α -Sulfonsäure. Na + $H_{\nu}O$ C21 H20 O5S
- (B. 36, 2788 C. 1903 [2] 882).

 1) Jodmethylat d. 5,7-Diphenyl-2,3-Dihydro-4-Isobenzazol. Sm. 240 bis 241° u. Zers. (B. 35, 3977 C. 1903 [1] 37). $C_{21}H_{20}NJ$
- .5) α -Phenyl- $\beta\beta$ -Dibenzylthioharnstoff. Sm. 145—146° (Soc. 63, 539). $C_{21}H_{20}N_2S$ - *II, *1245*.
- 2) 4-Methylphenyläther d. α-Phenyl-β-[4-Merkapto-2-Methylphenyl]-thioharnstoff. Sm. 143° (J. pr. [2] 68, 287 C. 1903 [2] 995).
 3) 4-Methylphenyläther d. α-Phenyl-β-[4-Merkapto-3-Methylphenyl]- $C_{21}H_{20}N_2S_2$
 - thioharnstoff. Sm. 147° (J. pr. [2] 68, 293 C. 1903 [2] 995).

 $\mathbf{C}_{21}\mathbf{H}_{22}\mathbf{NCl}$

 $\mathbf{C}_{21}\mathbf{H}_{22}\mathbf{NJ}$

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C_{21}H_{20}N_4S_2
                    4) Methylester d. \alpha-Phenyl-\alpha-[\alpha-Phenylhydrazonbenzyl]hydrazin-\beta-
                        Dithiocarbonsaure. Sm. 145-146° u. Zers. (J. pr. [2] 67, 235 (J. 1903)
                        [1] 1262).
                    4) a-Oxy-2-Dimethylamidotriphenylmethan. Sm. 156-160°. HCl +
   C_{21}H_{21}ON
                       H<sub>2</sub>O, Pikrat (B. 37, 3204 C. 1904 [2] 1472).
                    5) \alpha - Oxy - 4 - Dimethylamidotriphenylmethan. Sm. 92-93°. Oxalat
                       (B. 37, 2857 C. 1904 [2] 775).
                    6) 4-Diäthylamidophenyl-2-Naphtylketon. Sm. 74-75° (D.R. P. 52853).
                          *III, 195.
   C_{21}H_{21}ON_8
                    6) 4-Methylphenylamid d. Di|Phenylamido]essigsäure (A. 332, 264
                       C. 1904 [2] 699).
                  1) Tribenzylphosphinoxyd. Sm. 217° (C. r. 139, 675 C. 1904 [2] 1638).

*4) 3¹-Nitro-6², 6³-Diamido-3², 3³-Dimethyltriphenylmethan. Sm. 183° (123°?) (B. 36, 1024 C. 1903 [1] 1268).

*5) 4¹-Nitro-6², 6³-Diamido-3², 3³-Dimethyltriphenylmethan. Sm. 172°
   C_{21}H_{21}OP
  \mathbf{C}_{21}\mathbf{H}_{21}\mathbf{O}_{2}\mathbf{N}_{3}
                   (B. 36, 1022 C. 1903 [1] 1268).

C 69,4 — H 5,8 — O 13,2 — N 11,6 — M. G. 363.

1) 1-Phenylamid d. 6-Methyl-3-Phenyl-1,4-Dihydro-1,2-Diazin-1,3-
  C_{21}H_{21}O_{8}N_{3}
                      Dicarbonsäure-5-Aethylester. Sm. 192° (4. 331, 314 C. 1904 [2] 46).
                 *3) Dehydrocorybulbin + 5H<sub>2</sub>O. Sm. 175—178° (wasserfrei). IICl, (2HCl, PtCl<sub>4</sub>) (Ar. 241, 637 C. 1904 [1] 181).
4) Dehydroisocorybulbin. HJ (Ar. 241, 651 C. 1904 [1] 182).
5) Pseudopapaverin. HCl, (2HCl, PtCl<sub>4</sub> + 2H<sub>2</sub>O), HJ + 3H<sub>2</sub>O (J. pr.
  \mathbf{C}_{21}\mathbf{H}_{21}\mathbf{O}_{4}\mathbf{N}
                      [2] 68, 196 C. 1903 [2] 838).
 C_{21}H_{21}O_4N_3 *5) Methylester d. 3-Semicarbazon-2-Benzoyl-1-Phenyl-R-Penta-
                      methylen-5-Carbonsäure. Sm. 232° (A. 326, 376 C. 1903 [1] 1126).
  C_{21}H_{21}O_5N_3
                      C 63,8 — H 5,3 — O 20,2 — N 10,6 — M. G. 395.
                  1) o-Nitranilinazodesmotroposantonin. Sm. 275° u. Zers. (B. 36, 1392
                      C. 1903 [1] 1360).
 C_{21}H_{21}O_{5}Br_{3} 1) 6-Acetat-2,4-Diathyläther d. \alpha\beta-Dibrom-\gamma-Keto-\gamma-[P-Brom-2,4,6-
                     Trioxyphenyl]-α-Phenylpropan. Sm. 169—170° u. Zers. (B. 32, 2266).
                         *III, 168.
                *1) Hydrastin (Soc. 83, 617 C. 1903 [1] 590; Ar. 241, 269 C. 1903 [2] 447).
 C_{21}H_{21}O_6N
                *4) Nitril d. Phenyl-o-Glykocumarsäure. Sm. 169-170° (C. 1903 [1] 89).
 C_{21}H_{21}O_7N
                 5) Acetylderivat d. \beta-Trimethylbrasilonoxim. Sm. 179-182° (B. 36,
                     398 C. 1903 [1] 587). — *III, 480.
4) α-Oxy-4,4'-Di Methylamido triphenylmethan. Sm. 95°.
                                                                                                      (2HCI,
                     ZnCl_2 + H_2O) (B. 37, 643 C. 1904 [1] 951).
                  5) Aethyläther d. \alpha-[4-Oxyphenyl]imido-\alpha-Dimethylamido-\alpha-[1-Naphtyl] methan. Sm. 150° (B. 37, 2685 C. 1904 [2] 522).
                 6) 4.Dimethylamidophenyl-4-Aethylamido-1-Naphtylketon. Sm. 156 his
                 157° (162°) (D.R.P. 84655; C. 1903 [1] 87; B. 37, 1902 C. 1904 [2] 115).

1) Zinntribenzylhydroxyd (B. 37, 322 C. 1904 [1] 637).
 C_{21}H_{22}OSn
 \mathbf{C}_{21}\mathbf{H}_{22}\mathbf{O}_{2}\mathbf{N}_{2}
                *1) Strychnin. Nitroprussidwasserstoffsalz (C. 1903 [2] 385).
                 5) Oxim d. Ketoapocinchenäthyläther. Sm. 181-184° (J. pr. [2] 61,
                    26). — *III, 634.
\mathbf{C}_{21}\mathbf{H}_{22}\mathbf{O_{3}N_{2}}
                 2) Anilinazodesmotroposantonin. Sm. 260° (B. 36, 1391 C. 1903 [1]
C_{21}H_{22}O_4Br_2
                 1) Diacetat d. 3, 3'-Dibrom-4, 4'-Dioxy-2, 5, 2', 5'-Tetramethyldiphenyl-
                    methan. Sm. 178—179° (B. 36, 1891 C. 1903 [2] 291).
\mathbf{C}_{21}\mathbf{H}_{22}\mathbf{O}_{6}\mathbf{N}_{2}
                2) \alpha s-Di[Benzoylamido]pentan-2,2'-Dicarbonsaure (Pentamethylendi-
                phtalaminsäure). Sm. 156^{\circ} u. Zers. (B. 37, 3586 C. 1904 [2] 1407). Sm. 166–167° (J. pr. [2] 70,
\mathbf{C}_{21}\mathbf{H}_{22}\mathbf{O_8N_{12}}
                    C 44,2 - H 3,8 - O 22,5 - N 29,5 - M. G. 570.
                1) Hydraziazid d. Hippurylasparagylasparaginsäure (J. pr. [2] 70, 190
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1) Methylphenyldibenzylammoniumchlorid. Sm. 159-161° (Soc. 83,

2) Methylphenyldibenzylammoniumjodid. Sm. 134-135° (Soc. 83, 1410

- 2) Methylphenyldibenzylammoniumhydroxyd. d-Camphersulfonat (Soc. C.H.ON 83, 1411 C. 1904 [1] 438).
- 2) Methyläther d. γ -Keto- α -[oder β]-[1-Piperidyl]- γ -[4-Oxyphenyl]- α -Phenylpropen. Sm. 127° (Soc. 85, 1325 C. 1904 [2] 1645). C., H., O. N
- 2) 4-Nitrophenyldi [4,6-Diamido-3-Methylphenyl] methan. Sm. 2650 Co, Ho, O, N, (C. 1903 [1] 884).
- Co, Ho, O, N 2) Aethylester d. α-Phenylimido-β-Acetyl-α-Phenylbutan-β-Carbon-
- säure. Sm. 162° (D.R.P. 33497). *II, 1080. 8) Tetramethyläther d. 6,7-Dioxy-2-Methyl-1-[3,4-Dioxybenzyliden]-Co, Ho, O, N 1,2-Dihydroisochinolin (N-Methylisopapaverin). Sm. 129-1310. HCl. Pikrat (B. 37, 525 C. 1904 [1] 818).
 - 9) Anhydromethylcotarninacetophenon. Sm. 78°. HJ (B. 37, 2749 C. 1904 [2] 546).
 - Acthylester d. Anhydrohydrastininphenylessigsäure. Sm. 85-86°
 (B. 37, 2739 C. 1904 [2] 544).
- *1) β -Homochelidonin. Sm. 159° (C. 1903 [1] 1142). C21H25O5N
- Methylhydroxyd d. Diazopapaverin. Sm. 170°. Jodid, Methylsulfat (B. 37, 1935 C. 1904 [2] 129). C21 H28 O5 N8
 - 3) p-Nitranilinazo-d-Santonigesäure. Sm. 1750 (B. 36, 1394 C. 1903 [1] 1360).
- 4) Methylester d. Acetylmorphinkohlensäure. Sm. 168° (D.R.P. 106718 C, H, O, N
- $\mathbf{C}_{21}\mathbf{H}_{24}\mathbf{O}_{2}\mathbf{N}_{2}$
- C. 1900 [1] 1085). *III, 670.

 *13) Acetylallocinchonin (M. 24, 329 C. 1903 [2] 578).

 7) Anilinazo-d-Santonigesäure. Sm. 250° (B. 36, 1394 C. 1903 [1] 1360).

 8) Anilinazodesmotroposantonigesäure. Sm. 218° (B. 36, 1393 C. 1903 $\mathbf{C}_{21}\mathbf{H}_{24}\mathbf{O}_{8}\mathbf{N}_{2}$ [1] 1360).
 - 9) Benzoat d. δ-Oximido-β-Benzoylmethylamido-β-Methylpentan. Sm. 100—103° (M. 24, 778 C. 1904 [1] 158).
 5) Aethylester d. 4,5,6-Trioxy-2-[β-Methylamidoäthyl]-1-Phenyl-
- $C_{21}H_{24}O_{5}N_{2}$ imidomethylbenzol-6-Methyläther-4,5-Methylenäther-14-Carbonsäure (Ac. d. Cotarninanil-4-Carbonsäure). Sm. 1470 (B. 36, 1528) C. 1903 [2] 51).
- 3) Methylhydroxyd d. 6,7-Dioxy-1-[6-Nitro-3,4-Dioxybenzyl]iso-chinolintetramethyläther (M. d. Nitropapaverin). Salze siehe (B. 37, Co, Ho, O, No 1931 C. 1904 [2] 128).
- $C_{21}H_{24}O_{12}N_4$ C 48.1 - H 4.6 - O 36.6 - N 10.7 - M. G. 524.1) Hippurylasparagylasparaginsäure. Sm. 100° u. Zers. Ba2, Pb, Ag4
- (J. pr. [2] 70, 184 C. 1904 [2] 1397). 3) Isonitrosomethylchinin. Sm. 90—100° (B. 33, 3236). — *III, 629. *1) Corybulbin. Sm. 237—238°. HCl, (IICl, AuCl_g) (Ar. 241, 634 C. 1904 $C_{21}H_{25}O_8N_3$ $\mathbf{C}_{21}\mathbf{H}_{25}\mathbf{O}_{4}\mathbf{N}$
- [1] 180; Soc. 83, 625 C. 1903 [1] 1364). *11) i - Corybulbin. Sm. 220-222°. HCl, (2HCl, PtCl₄), (HCl, AuCl₈)
 - (Ar. 241, 647 C. 1904 [1] 181).

 *12) d-Isocorybulbin. Sm. 179—180° (Ar. 241, 650 C. 1904 [1] 182).

 14) i-Isocorybulbin. Sm. 165—167° (Ar. 241, 651 C. 1904 [1] 182).
- C21 H25 O4 N8 C 65.8 - H 6.5 - O 16.7 - N 11.0 - M. G. 383.1) Verbindung (aus Disazobenzolsantonsäure). (2HCl, SnCl₄) (B. 36, 1395 C. 1903 [1] 1360).
- $C_{21}H_{25}O_4N_5$ C 61,3 - H 6,1 - O 15,6 - N 17,0 - M. G. 411.1) Phenylamid d. α - $[\alpha$ - Benzoylamidoacetylamidopropionyl]amidoäthylamidoameisensäure. Sm. 226° (J. pr. [2] 70, 127 C. 1904 [2]
- C 65,1 H 6,5 O 24,8 N 3,6 M. G. 387 $C_{21}H_{25}O_{6}N$
- 1) Papaveramin. Sm. 128—129°. (2HCl, PtCl₄ + 3H₂O) (J. pr. [2] 68, 204 C. 1903 [2] 839). C 60,7 - H 6,0 - O 28,1 - N 10,1 - M. G. 415.
- $C_{21}H_{25}O_6N_3$ Nitroderivat d. Propan - αβ-Dicarbonsäuredi [4-Aethoxylphenyl-
- amid]. Sm. 195° (G. 34 [2] 271 C. 1904 [2] 1454).

 1) 2,4-Dimethylbromphenylat d. 2-[2,4-Dimethylphenyl]amido-1,2-Dihydropyridin. Sm. 153° (J. pr. [2] 69, 125 C. 1904 [1] 815). $\mathbf{C}_{21}\mathbf{H}_{25}\mathbf{N}_{2}\mathbf{Br}$
- $C_{21}H_{26}ON_2$ 6) α-[1-Naphtyl]-β-Bornylharnstoff (Soc. 85, 1191 C. 1904 [2] 1125). Aethylester d. βs -Di[Phenylhydrazon]hexan- γ -Carbonsäure. Zers. bei 130° (B. 37, 2192 C. 1904 [2] 240). C21 H26 O2 N4

6) Di[4-Aethoxylphenylamid] d. Propan-αβ-Dicarbonsäure. Sm. 234 bis 235° (G. 34 [2] 269 C. 1904 [2] 1454). C 63,3 — H 6,5 — O 16,1 — N 14,1 — M. G. 398.
1) Pyramidonorthoform. Sm. 76° (A. 325, 320 C. 1903 [1] 769).
2) isom. Pyramidonorthoform. Sm. 65—66° (A. 325, 320 C. 1903 [1] Co, Ho, O, No Co, Ho, O, N C 60.9 — H 6.3 — O 19.3 — N 13,5 — M. G. 414. $C_{91}H_{98}O_5N_4$ 1) Diäthylester d. Diphenylcarbaziddiessigsäure. Sm. 114-115 ° (B. 36, 3889 C. 1904 [1] 28). 3) α-Keto-γε-Diäthylsulfon-αε-Diphenylpentan. Fl. (B. 37, 510 C. 1904 C21 H26 O5 S2 [1] 884). C 77,5 — H 8,3 — O 9,8 — N 4,3 — M. G. 325. $C_{21}H_{27}O_2N$ 1) Phenylamidoformiat d. 5-[α-Oxyäthyl]-1,2,4-Triäthylbenzol. Sm. 1) Phenylamidoformiat d. 5-[\$\alpha\$-\text{CXYBULY]}\$-1, \$\alpha\$, \$\frac{1}{2}\$-\text{TRadify}\$ for \$1.5 \\
75-76\gamma\$ (B. 36, 1635 C. 1903 [2] 26).

*1) d-Laudanosin (Soc. 83, 626 C. 1903 [1] 591).

C 67,6 — H 7,2 — O 21,4 — N 3,8 — M. G. 373.

1) Aethyllaurotetanin. Sm. 127—130\gamma\$. HJ (A. 236, 615). — *III, 661.

C 56,1 — H 6,0 — O 28,5 — N 9,4 — M. G. 449. $C_{21}H_{27}O_4N$ C21H27O5N C21H27O8N8 1) Trinitrocannabinol (C. 1903 [2] 199). C 67,7 — H 7,5 — O 17,2 — N 7,5 — M. G. 372. 1) Tetramethyläther d. 6, 7 - Dioxy-1-[6-Amido-3,4-Dioxybenzyl]-C21H28O4N2 2-Methyl-1, 2, 3, 4-Tetrahydroisochinolin (Amidotetrahydro-N-Methylpapaverin). Sm. 145° (B. 37, 1940 C. 1904 [2] 130). C 63,0 — H 7,0 — O 16,0 — N 14,0 — M. G. 400. Co. Hos O. N. 1) 2,2'-Dinitro-4,4'-Di[Diäthylamido]diphenylmethan. Sm. 121---121,5" (D. R. P. 139989 *C.* 1903 [1] 798). C 54,3 — H 6,0 — O 27,6 — N 12,1 — M. G. 464. C21 H28 O8 N4 C 54,3 - H 5,0 - O 27,6 - N 12,1 - M. G. 404.

1) Diäthylester d. Hippurylasparagyldiamidoessigsäure. Snr. 1956 (*J. pr.* [2] 70, 193 *C.* 1904 [2] 1398). C 51,2 - H 5,7 - O 26,0 - N 17,1 - M. G. 492.

1) Aethylester d. Benzoylpenta [Amidoacetyl] amidoessigsäure. Sm. 2636 u. Zers. (258-2636) (*B.* 37, 1282 *C.* 1904 [1] 1335; *J. pr.* [2] 70, $\mathbf{C}_{91}\mathbf{H}_{28}\mathbf{O}_{8}\mathbf{N}_{6}$ 100 *C.* **1904** [2] 1035). *1) α -Oxy-4,4'-Di[Diäthylamido]triphenylmethan. (2HCl, ZnCl₂) (B. 37, 3061 C. 1904 [2] 990). C21 H80 ON2 C 70.4 - H 8.4 - O 13.4 - N 7.8 - M. G. 358.C21 H30 O3 N2 Menthylester d. α-[4-Methylphenyl]azoacetylessigsäure. Sm. 86 his 87° (Soc. 83, 1121 C. 1903 [2] 23, 791). *1) Menthylester d. β-Benzylamidopropen-α-Carbonsäure. Sm. 85—86° (Soc. 81, 1505 C. 1903 [1] 138). C 47,3 — H 5,8 — O 39,0 — N 7,9 — M. G. 533. $C_{21}H_{81}O_{2}N$ C21 H21 O18 N3 1) Säure (aus Guttapercha) oder C₃₄H₅₄O₂₁N₅ (C. 1903 [1] 83). $\mathbf{C_{21}H_{32}O_{8}Cl_{2}}$ 1) Dianisalcyklopentanondihydrochlorid (B. 36, 1477 C. 1903 [1] 1348). C 43,4 — H 5,5 — O 22,1 — N 29,0 — M. G. 580.

1) Hydrazid d. Hippurylasparagylasparaginsäure. Sm. 176° u. Zers. C21 H32 O8 N12 (J. pr. [2] 70, 189 C. 1904 [2] 1397). C 69.4 — H 9,1 — O 17,6 — N 3,9 — M. G. 363. $C_{21}H_{33}O_4N$ 2,4,5-Trimethyläther d. γ-Oximido-α-[2,4,5-Trioxyphenyl]-α-Dodeken. Sm. 86° (Ar. 242, 103 C. 1904 [1] 1008).
 C 64,5 — H 8,4 — O 16,4 — N 10,7 — M. G. 391. C21 H33 O4 N3 1) α -[α -(α -Amidoisocapronyl)amidoisocapronyl]amido- β -Phenylpropionsäure $+ 2 H_{2} O$. Sm. $225 - 227^{\circ}$ (\tilde{B} . 37, 3311 C. 1904 [2] 1306). $\mathbf{C}_{21}\mathbf{H}_{34}\mathbf{O}_{3}\mathbf{N}_{4}$ *1) α-Pepsinfibrinpepton (Säure aus Fibrin) (H. 38, 258 C. 1903 [2] 210; H. 38, 291 C. 1903 [2] 211). C₂₁H₃₅O₃Br₈ 1) Tribromdihydrocyklogallipharsäure. Sm. 61° (Ar. 242, 265 C. 1904 [1] 1654). C 75,9 — H 10,8 — O 4,8 — N 8,4 — M. G. 332. 1) d-αβ-Dibornylharnstoff. Sm. noch nicht bei 290° (Soc. 85, 687 C. 1904) $C_{21}H_{36}ON_2$ C₂₁H₃₆O₁₀N₆ *1) β-Pepsinfibrinpepton (Säure aus Fibrin) (H. 38, 258 C. 1903 [2] 210; H. 38, 296 C. 1903 [2] 211). C21 H36 N.S *1) s-Dibornylthioharnstoff. Sm. 227° (C. 1904 [1] 1605; Soc. 85, 1193 C. 1904 [2] 1125). 1) Samandatrin. H₂SO₄ (C. 1904 [2] 130). C21 H37 O8 N

C 46.2 - H 7.2 - O 23.5 - N 23.1 - M. G. 545. $1) Glutokyrin. <math>2 + 5H_2SO_4$ (C. 1903 [1] 1145; 1903 [2] 580; H. 43, $C_{21}H_{39}O_8N_9$ 44 C. 1904 [2] 1660). C 75.0 — H 11.9 — O 4.8 — N 8.3 — M. G. 336. 1) 1- $\alpha\beta$ -Dimenthylharnstoff. Sm. 258° (Soc. 85, 690 C. 1904 [2] 332). C21H40ON2

- 21 IV -

1) α-Naphtakridin-2,11-Disulfonsäure. Na. (B. 35, 4175 C. 1903 $C_{21}H_{13}O_6NS_2$ [1] 173). 2) β-Naphtakridin-3,10-Disulfonsäure. Ag. (B. 35, 4173 C. 1903 [1] 173). 1) 2-Brom-4-[4-Methylphenyl]amido-1, 3-Dioxy-9, 10-Anthra-C, H, O, NBr chinon (D.R.P. 153517 C. 1904 [2] 752). C21H14O2NC1 1) Chlormethylamidofluoran. Sm. 168° (D.R.P. 139727 C. 1903 [1] 796).

1) 2-Brom-4-[4-Methylphenyl]amido-1-Oxy-9,10-Anthrachinon C, H, O, NBr (D.R.P. 127532 O. 1902 [1] 287). — *III, 301. 1) 6-Phenylazo-3-Phenyl-1, 2-Benzpyron-64-Sulfonsäure (B. 37. $C_{21}H_{14}O_5N_2S$ 4132 C. 1904 [2] 1736). 1) 2-Brom-1-Amido-4-[4-Methylphenyl]amido-9,10-Anthrachinon $C_{21}H_{15}O_2N_2Br$ (C. 1904 [2] 340). 1) 2, 6-Di[$\alpha\beta$ -Dibrom- β -4-Nitrophenyläthyl]pyridin. (B. 36, 1688 C. 1903 [2] 47). C21 H15 O4 N8 Br4 C21 H15 O6 NS 1) 4-[4-Methylphenyl]amido-1-Oxy-9,10-Anthrachinon-42-oder-43-Sulfonsäure (Alizarinirisol) (C. 1904 [1] 101). 1) Nitril d. β -[4-Bromphenyl]hydrazon- α -[4-Chlorphenyl]- β -Phenylpropionsäure. Sm. 144° (*J. pr.* [2] 67, 383 *C.* 1903 [1] 1356). $\mathbf{C_{21}H_{15}N_{8}ClBr}$ Jodmethylat d. 5-Phenylakridin-5²-Carbonsäure + H₂O. Sm. 257-260° (B. 37, 1010 C. 1904 [1] 1277).
 γ-Chlor-α-Keto-γ-[3-Nitrophenyl]-αβ-Diphenylpropan. Sm. 166-167° (Soc. 83, 1377 C. 1904 [1] 164, 450).
 Yorkindure (soc. 1 Amidheathire) $C_{21}H_{16}O_2NJ$ C21 H16 O8 NC1 Verbindung (aus 1-Amidobenzthiazol u. Benzoësäureanhydrid).
 Sm. 156° (B. 36, 3136 C. 1903 [2] 1071).
 1-Phenyl-5-[4-Bromphenyl]-4-Benzyl-4, 5-Dihydro-1, 2, 4-Triazol-3, 5-Sulfid? Sm. 218° (J. pr. [2] 67, 238 C. 1903 [1] 1263). $C_{21}H_{16}O_{8}N_{2}S$ $C_{21}H_{16}N_{8}BrS$ 1) 3,4-Methylenäther d. 4'-[3,4-Dioxybenzyliden]amido-4-Methyldiphenylsulfid. Sm. 95° (J. pr. [2] 68, 273 C. 1903 [2] 993). $C_{21}H_{17}O_2NS$ 4) β -Phenylhydrazon- α -[4-Chlorphenyl]- β -Phenylpropionsäure. $C_{21}H_{17}O_2N_2Cl$ Sm. 130° (J. pr. [2] 67, 386 C. 1903 [1] 1357).

1) Laktam d. ?-Dinitro-α-Oxytriphenylmethan-2-Sulfonsäure-äthylamid. Sm. 220—230° (B. 37, 3263 C. 1904 [2] 1031). $C_{21}H_{17}O_6N_3S$ 1) Verbindung (aus d. Suprarenintribenzolsulfonat) (M. 24, 281 C. 1903 [2] 302). — *III, 667. C21H17O0NS2 1) Aethyläther d. 3'-Brom-4'-[3-Nitrobenzyliden]amido-4-Oxydiphenylamin. Sm. 137—138° (B. 36, 3866 C. 1904 [1] 91). $C_{21}H_{18}O_3N_3Br$ 1) 4-Oxyazobenzol-3-[α -Phenylpropionsäure]-4'-Sulfonsäure (B. 37, 4134 C. 1904 [2] 1736). C21 H18 O6 N2S 1) α -[2-Methylphenyl]amidothioformylimido- α -[4-Chlorphenyl]- $C_{21}H_{18}N_3ClS$ amido- α -Phenylmethan. Sm. 143° (J. pr. [2] 67, 463 C. 1903 [1] 1422). 1) Methyläther d. 5-Jod-3-Merkapto-1,4,5-Triphenyl-4,5-Dihydro- $C_{21}H_{18}N_3JS$ 1,2,4-Triazol. Sm. 330° (J. pr. [2] 67, 229 C. 1903 [1] 1262). 1) 4-[2-Oxybenzyliden]amido-3,4'-Dimethyldiphenylsulfid. HCl (J. pr. [2] 68, 288 C. 1903 [2] 995). $C_{21}H_{19}ONS$ 2) Methyläther d. 4'-[4-Oxybenzyliden]amido-4-Methyldiphenylsulfid. Sm. 1190 (J. pr. [2] 68, 272 C. 1903 [2] 993). 3) 4-Benzoylamido -3,4'-Dimethyldiphenylsulfid. Sm. 133° (J. pr. [2] 68, 282 C. 1903 [2] 994). 1) 3-Methyläther d. 3-Merkapto-5-Oxy-1, 4, 5-Triphenyl-4, 5-

Dihydro-1, 2, 4-Triazol. Sm. 157° (J. pr. [2] 67, 231 C. 1903 [1] 1262). 1) Sultam d. α-Oxytriphenylmethan-2-Sulfonsäureäthylamid. Sm.

155-156° (B. 37, $3\overline{2}62$ C. 1904 [2] 1031).

 $C_{21}H_{19}ON_8S$

 $C_{21}H_{10}O_{2}NS$

$\mathrm{C_{21}H_{19}O_{2}N_{2}Br}$	1) 5-Aethyläther d. 3'-Brom-2-[2-Oxymorarliden amide-5-Oxydiphenylamin. Sm. 116° (B. 36, 3870 . 1904 [] http://doi.org/10.1004
$C_{21}H_{19}O_8NS$	1) 2-[4-Methylphenylsulfon]amido-4'-Methyldiphenylketon. Sm. 123° (B. 35, 4276 C. 1903 [1] 333).
	2) 2-[Methyl-4-Methylphenylsulfon]amidodiphenylketon. Sm. 124° (B. 35, 4276 C. 1903 [1] 332).
$\mathbf{C}_{21}\mathbf{H}_{19}\mathbf{O}_4\mathbf{NS}$	1) Methyläther d. 2-[4-Meth-]-harrian! for do-4'-Oxydiphenyl-keton. Sm. 143° (B. 35 1903
$\mathbf{C}_{21}\mathbf{H}_{19}\mathbf{O}_{5}\mathbf{NBr}_{2}$	1) Acetat d. $\alpha\beta$ -Dibrom- γ -Keto- γ -[5-Diacetylamido-2-Oxyphenyl]- α -Phenylpropan. Sm. 170° (B. 37, 2827 C. 1904 [2] 704).
$\mathbf{C}_{21}\mathbf{H}_{20}\mathbf{ON}_{2}\mathbf{S}$	 4-Methylphenyläther d. α-Phenyl-β-[4-Merkapto-2-Methylphenyl]harnstoff. Sm. 187° (J. pr. [2] 68, 286 C. 1903 [2] 995). 4-Methylphenyläther d. α-Phenyl-β-[4-Merkapto-3-Methylphenyl]harnstoff. Sm. 227° (J. pr. [2] 68, 292 C. 1903 [2] 995).
$\mathbf{C}_{21}\mathbf{H}_{20}\mathbf{O}_{2}\mathbf{N}_{2}\mathbf{Br}_{2}$	2) isom. Dibromstrychnin. Sm. 130—131°. (HBr, Br) (Bl. [3] 31, 388 C. 1904 [1] 1280).
$\mathrm{C_{21}H_{20}O_{8}NP}$	1) Di[Phenylamid] d.1,2,3,4-Tetrahydro-1-Chinolylphosphinsäure. Sm. 176° (A. 326, 188 C. 1903 [1] 820).
$\mathrm{C_{21}H_{20}O_6N_2S}$	1) α -[2-Naphtylsulfonamidoacetyl]amido- β -[4-Oxyphenyl]propionsäure. Sm. 166—166,5° (B. 36, 2599 C. 1903 [2] 619).
$\mathbf{C}_{21}\mathbf{H}_{21}\mathbf{O}_2\mathbf{N}_2\mathbf{Br}$	3) isom. Bromstrychnin. Sm. 199°. (HBr, Br) (Bl. [3] 31, 386 C. 1904 [1] 1279).
$\mathbf{C_{21}H_{21}O_{2}N_{2}J}$	1) Jodstrychnin. Sm. 188°. (HJ, J) (Bl. [3] 31, 389 C. 1904 [1] 1280).
$C_{21}H_{21}O_{2}N_{3}S$	1) Sultamd. P-Diamido-α-Oxytriphenylmethan-2-Sulfonsäureäthylamid. Sm. noch nicht bei 250° (B. 37, 3263 C. 1904 [2] 1031).
$\mathbf{C_{21}H_{21}O_{2}N_{3}S_{2}}$	1) Methylather d. α - β -Phenylsulfon- α -Benzylhydrazidol- α -Phenyl-
$\mathbf{C_{21}H_{21}O_8NS}$	imido- α -Merkaptomethan. Sm. 126° (B. 37, 2329 C. 1904 [2] 313). 1) Aethylamid d. α -Oxytriphenylmethan-2-Sulfonsäure. Sm. 184 bis 185° (B. 37, 200 C. 1904 [1] 600 B. 37, 200 C. 1904 [1] 600 B. 37, 200 C. 1904 [1] 600 B. 37, 200 C. 1904 [1] 600 B. 37, 200 C. 1904 [1] 600 B. 37, 200 C. 1904 [1] 600 B. 37, 200 C. 1904 [1] 600 B. 37, 200 C. 1904 [1] 600 B. 37, 200 C. 1904 [1] 600 B. 37, 200 C. 1904 [2] 313).
$\mathbf{C_{21}H_{21}N_6S_3P}$	bis 185° (B. 37, 390 C. 1904 [1] 669; B. 37, 3262 C. 1904 [2] 1031). *1) Phosphortri[Phenylthioharnstoff]. Sm. 67—69° (Soc. 85, 355 C. 1904 [1] 1406).
$\mathbf{C}_{21}\mathbf{H}_{22}\mathbf{O}_{2}\mathbf{N}_{2}\mathbf{J}_{2}$	1) Dioddibydogtwyddia (7) fol o'i oco o'i ac tha ar ar ar ar ar ar ar ar ar ar ar ar ar
$C_{21}H_{22}O_{8}H_{2}S$	 Dijoddihydrostrychnin (Bl. [3] 31, 390 C. 1904 [1] 1280). αβ-Dibrom-ε-[4-Methylphenyl]sulfon-η-Keto-αε-Diphenylpentan. Sm. 204° u. Zers. — *III, 175.
$\mathbf{C}_{21}\mathbf{H}_{22}\mathbf{O_4NBr}$	1) Tetramethyläther d. 6,7-Dioxy-2-Methyl-1-[6-Brom-3,4-Dioxy-benzyliden]-1,2-Dihydroisochinolin (N-Methylbromisochinolin
$\mathbf{C_{21}H_{22}O_4N_8J}$	1) Jodmethylat d. Diazonanaverin L. H.O. Sm. 1000
$\mathbf{C_{21}H_{22}O_5NJ}$	("absolite) (D. 97, 195) (; 19(14, 12) 19(1)
$\mathbf{C}_{21}^{21}\mathbf{H}_{23}^{22}\mathbf{O_6N_2C1}$	*1) Jodmethylat d. Papaveraldin + 2 H ₂ O (M. 24, 716 (J. 1904 [1] 218). 1) Chlormethylat d. 6,7-Dioxy-1-[6-Nitro-3,4-Dioxybenzyl]iso-chinolintetramethyläther (Ch. d. Nitropapaverin). Sm. 212° (B. 37, 1932 (J. 1904 [2] 129)
C II O M D.,	
$\mathbf{C_{21}H_{23}O_6N_{2}Br}$	1) Brommethylat d. 6,7-Dioxy-1-[6-Nitro-3,4-Dioxybenzyl]iso-chinolintetramethyläther (Br. d. Nitropapaverin). Sm. 227° u. Zers.
$\mathbf{C_{21}H_{28}O_6N_2J}$	1) Jodnethylat d. 6.7-Dioxy-1-[6-Nitro 2 4 Div.
	chinolintetramethyläther (J. d. Nitropapaverin). Sm. 225° (B. 37, 1931 C. 1904 [2] 128).
$\mathbf{C}_{21}\mathbf{H}_{24}\mathbf{ON_{3}P}$	*1) Tri[2-Methylphenylamid] d. Phosphorsäure. Sm. 236° (A. 326, 250 Anm. C. 1903 [1] 868).
	4) Tri[Methylphenylamid] d. Phosphorsäure. Sm. 162 (A. 326, 256 C. 1903 [1] 869).
	5) Tri[Benzylamid] d. Phosphorsäure. Sm. 98° (A. 326, 178 C. 1903 [1] 819).
	6) Methylphenylamid-Diff-Woth-later and the later and the
$\mathbf{C}_{21}\mathbf{H}_{24}\mathbf{O}_{8}\mathbf{NBr}$	1) Brombenzovlmethylat d 1923 4 m
$\mathbf{C_{21}H_{24}O_{3}NJ}$	2) Monoacetat d. Methylonomena. (B. 30, 1100 C. 1903 [1] 1186).
$\mathbf{C_{21}H_{24}O_{3}N_{2}Br_{2}}$	1) Acetat d. 3.6-Dibrom-6'-Dimethalia
	2,5-Dimethyldiphenylmethan. Sm. 138—139° (A. 334, 315 C. 1904)

 $\mathbf{C}_{21}\mathbf{H}_{24}\mathbf{O}_7\mathbf{N}_2\mathbf{S}$ 1) Sulfanilsäureazodesmotroposantonin. Sm. 269° (B. 36, 1392) C. 1903 [1] 1360).

 $C_{21}H_{24}N_{3}SP$ 3) Tri[Benzylamid] d. Thiophosphorsäure. Sm. 127° (A. 326, 209

 O. 1903 [1] 822).
 Acetat d. 3,6-Dibrom-4'-Diäthylamido-4-Oxy-2,5-Dimethyl- $\mathbf{C}_{21}\mathbf{H}_{25}\mathbf{O}_{2}\mathbf{NBr}_{2}$ diphenylmethan. Sm. 139-140° (A. 334, 317 C. 1904 |2| 987).

1) 4-Aethoxylbromphenylat d. 2-[4-Aethoxylphenyl]amido-1,2- $\mathbf{C}_{21}\mathbf{H}_{25}\mathbf{O}_{2}\mathbf{N}_{2}\mathbf{Br}$ Dihydropyridin. Sm. 143° (J. pr. [2] 69, 130 C. 1904 [1] 815).

1) Chlormethylat d. 6,7-Dioxy-1-[6-Amido-3,4-Dioxybenzyl]iso-

 $\mathbf{C}_{21}\mathbf{H}_{25}\mathbf{O_4N_2Cl}$ chinolin. Sm. 147°. HCl (B. 37, 1940 C. 1904 [2] 130).

 Bromderivat d. Propan-αβ-Dicarbonsäuredi[4-Aethoxylphenylamid]. Sm. 74° (G. 34 [2] 271 C. 1904 [2] 1454). C21H25O4N2Br 1) Jodnethylat d. Dimethylapomorphimethin. Sm. 242-244° (B. 35,

 $\mathbf{C}_{21}\mathbf{H}_{26}\mathbf{O}_{2}\mathbf{NJ}$ 4390 C. 1903 [1] 339).

1) Jodmethylat d. Isonitrosomethyleinchotoxin. Sm. 235° (B. 33,

 $\mathbf{C}_{21}\mathbf{H}_{26}\mathbf{O}_{2}\mathbf{N}_{8}\mathbf{J}$ 3225). — *III, 637. 1) Menthylester d. α -Brom- α -[4-Methylphenyl]azoacetessigsäure. $\mathbf{C}_{21}\mathbf{H}_{29}\mathbf{O}_{3}\mathbf{N}_{2}\mathbf{Br}$

Sm. 155—156° (Soc. 83, 1128 C. 1903 [2] 24, 791).

1) Jodmethylat d. Anhydromethylcotarninmalonsäurediäthylester. $\mathbf{C}_{21}\mathbf{H}_{80}\mathbf{O}_{7}\mathbf{N}\mathbf{J}$

Sm. 201° (B. 37, 2741 C. 1904 [2] 544). 1) α -[α -(α -Bromisocapronyl)amidoisocapronyl|amido- β -Phenyl-propionsäure. Sm. 163—165° (B. 37, 3311 C. 1904 [2] 1306). $\mathbf{C}_{21}\mathbf{H}_{31}\mathbf{O_4N_2Br}$

- 21 V

 $C_{21}H_{15}O_5N_2BrS$ 1) 2-Brom-1-Amido - 4-[4-Methylphenyl] amido - 9,10-Anthrachinon-4²[oder 4³]-Sulfonsäure (Alizarinreinblau) (C. 1904 [2] 340).

*1) Phosphoryltri[Phenylthioharnstoff] (Soc. 85, 365 C. 1904 [1] $\mathbf{C}_{21}\mathbf{H}_{21}\mathbf{ON}_{6}\mathbf{S}_{8}\mathbf{P}$ 1407).

 $C_{21}H_{21}O_{3}NBrP$ 1) 2-Brom-4-Methylphenylmonamid d. Phosphorsäuredi [4-Methylphenylester]. Sm. 154° (A. 326, 239 C. 1903 [1] 868).

1) Jodmethylat d. 6,7-Dioxy-1-[6-Brom-3,4-Dioxybenzyl]iso-chinolintetramethyläther. Zers. bei 225° (B. 37, 3813 C. 1904 C₂₁H₂₃O₄NBrJ [2] 1575).

C22-Gruppe.

 $C_{22}H_{22}$ *4) Tri[4-Methylphenyl]methan. Sm. 53-54°; Sd. oberh. 400° (B. 37, 3155) C. 1904 [2] 1048). C 86,3 — H 13,7 — M. G. 306.

C,2H42

C22 H14 O9

1) Kohlenwasserstoff (aus Petroleum) (C. 1904 [1] 409).

— 22 II —

 Chinoxalophenanthrazin. Sm. 200°. HCl (B. 36, 4042 C. 1904 [1] 183; B. 36, 4053 C. 1904 [1] 185).
 Naphtochinoxalonaphtazin. Zers. bei 300° (B. 36, 4046 C. 1904 $C_{22}H_{12}N_4$

3) Naphtochinoxalonaphtazin. [1] 184; B. 36, 4053 C. 1904 [1] 185).

3) 4-Benzoat d. 3,4-Dioxy-9,10-Phenanthrenchinon-3-Methyläther. C22H14O5

Sm. 228° (B. 31. 3201). — *III, 318. *4) Diacetat d. 6,11-Dioxy-5,12-Naphtacenchinon. Sm. 235° (B. 36, 722 C. 1903 [1] 774). C22H14O6

2) Triacetat d. Oxystyrogallol. Sm. 250° (i. V.) (C. 1899 [2] 967). — *II, *1207*.

3) Triacetat d. Trioxybrasanchinon. Sm. 281° (B. 36, 2200 C. 1903 [2] 381).
3) 2,3 - Diphenyl - 1,4,5,10 - Naphttetrazin (Diphenylpyrazinophenazin).

C22H14N4 Sm. 235° (B. 36, 4040 C. 1904 [1] 182).

4) Dihydrochinoxalophenanthrazin. Sm. oberh. 300° (B. 36, 4043 C. 1904 [1] 183).

5) Naphtobenzofluorindin. 2 HCl (B. 37, 3890 C. 1904 [2] 1654).
6) Dinaphtofluoflavin. Zers. bei 300° (B. 36, 4045 C. 1904 [1] 183).

NN 11.	
$\mathbf{C}_{22}\mathbf{H}_{15}\mathbf{N}_3$	 8) Nitril d. α-[1-Naphtyl]imido-α-[1-Naphtyl]amidoessigsäure. Sm. 150° (165°) (D.R. P. 152019 C. 1904 [2] 71; D.R. P. 153418 C. 1904 [2] 679). 9) Nitril d. α-[2-Naphtyl imido-α-[2-Naphtyl]amidoessigsäure. Sm 166° (D.R. P. 152019 C. 1904 [2] 71).
$\mathrm{C}^{55}\mathrm{H}^{19}\mathrm{O}^{3}$	 14) Anhydrid d. αθ-Diphenyl-αγεη-Oktatetraën-δε-Dicarbonsäure. Sm. 215° u. Zers. (A. 331, 167 C. 1904 [1] 1211).
	15) Methylester d. 2-Benzoylfluoren-2 ² -Carbonsäure. Sm. 126—128° (B. 36, 4037 C. 1904 [1] 168).
	(B. 36, 4037 C. 1304 [1] 160). 16) Pseudomethylester d. 2-Benzoylfluoren-2 ² -Carbonsäure. Sm. 200 bis 202° (B. 36, 4038 C. 1904 [1] 168).
	17) Benzoat d. α-Oxy-γ-Keto-αγ-Diphenylpropen. Sm. 108—109° (B. 36, 3679 C. 1903 [2] 1443).
$\mathbf{C}_{22}\mathbf{H}_{16}\mathbf{O}_{4}$	10) Diacetat d. 1,2 - Dioxychrysen. Sm. 225—228° (D.R.P. 151981 C. 1904 [2] 167).
$C_{22}H_{16}O_5$	13) Dimethyläther d. Hydrochinonphtalein. Sm. 200° (B. 36, 2959 C. 1903 [2] 1006).
$C_{22}H_{16}O_{6}$	C 70,2 — H 4,2 — O 25,5 — M. G. 376. 1) 2,5-Dibenzoxylbenzol-1-Carbonsäure. Sm. 179—180° (Journ. of
o Tr	Physiology 27, 92). — *II, 1031. 6) Dimethyläther d. Phloroglucinphtaleïn (B. 36, 1074 C. 1903 [1] 1181).
$egin{array}{c} \mathbf{C}_{22}\mathbf{H_{16}} \mathbf{O_7} \ \mathbf{C}_{22}\mathbf{H_{16}} \mathbf{O_{10}} \end{array}$	7) Tetraacetat d. 1, 6, ?, ? - Tetraoxy - 9, 10 - Anthrachinon. Sm. 195° (B. 36, 2938 C. 1903 [2] 886).
	8) Tetracetat d. isom. 1,6,9,9-Tetracxy-9,10-Anthrachinon. Sin. 238-240° (B. 36, 2941 C. 1903 [2] 886).
$egin{array}{l} \mathbf{C}_{22}\mathbf{H}_{16}\mathbf{N}_{2} \\ \mathbf{C}_{22}\mathbf{H}_{16}\mathbf{N}_{4} \end{array}$	10) Di[1-Naphtyliden]hydrazin. Sm. 152° (Bl. [3] 17, 303). — *III, 48. *2) 3,6-Di[2-Naphtyl]-1,2-Dihydro-1,2,4,5-Tetrazin. Sm. 246° (B. 35,
	3933 C. 1903 [1] 38). 3) Verbindung (aus 4,5-Diketo-1,3-Diphenyl-4,5-Dihydropyrazol) (B. 36, 1136 C. 1903 [1] 1254).
$\mathbf{C_{22}H_{17}N_5}$	5) Chinolylformazyl. Sm. 185° u. Zers. (B. 37, 3014 C. 1904 [2] 1409). (b) Verbindung (aus d. Verb. C ₂₂ H ₂₂ N ₆). 2HCl (B. 37, 3891 C. 1904 [2] 1654).
$C_{2},H_{18}O$	 *4) Verbindung (aus α-Chlor-γ-Keto-αβδ-Triphenylbutan). Sm. 162° (M. 24, 725 C. 1904 [1] 167).
	(M. 25, 125 c. 1802 [1] 101). 5) γ-Keto-βγ-Diphenyl-α-[4-Methylphenyl]propen. Sm. 95° (B. 35, 3966 C. 1903 [1] 30).
	6) isom. γ -Keto- $\beta\gamma$ -Diphenyl- α -[4-Methylphenyl]propen. Sm. 78° (B. 35, 3966 C. 1903 [1] 30).
$\mathrm{C_{22}H_{18}O_2}$	 16) Methyläther d. γ-Keto-βγ-Diphenyl-α-[4-Oxyphenyl] propen. Sm. 113° (B. 35, 3971 C. 1903 [1] 31).
•	 Methyläther d. isom. η-Keto-βη-Diphenyl-α-[4-Oxyphenyl] propen. Sm. 85° (B. 35, 3972 C. 1903 [1] 31).
	18) Lakton d. 6-Oxy-3, 4-Dimethyltriphenylessigsäure. Sm. 178° (B. 37, 665 C. 1904 [1] 952).
	19) Lakton d. 2-Oxy-3,5-Dimethyltriphenylessigsäure. Sm. 170° (B. 37, 666 C. 1904 [1] 952).
$C_{22}H_{18}O_8$	8) Aethylester d. 3-Benzoylacenaphten-3 ² -Carbonsäure. Sm. 111 ⁰ . Pikrat (A. 327, 101 O. 1903 [1] 1228).
	9) Verbindung (aus Cinnamenylakrylsäure). Sm. 152° (B. 36, 4324 Anm. C. 1904 [1] 453).
$C_{22}H_{18}O_4$	*5) Dibenzylester d. Benzol-1, 2-Dicarbonsäure. Sm. 43°; Sd. 275—278°, (B. 35, 4092 C. 1903 [1] 75; B. 36, 160 C. 1903 [1] 502).
	12) $\alpha \sigma$ -Diphenyl- $\alpha \gamma \varepsilon \eta$ -Oktatetraën- $\delta \varepsilon$ -Dicarbonsäure. Ca $+$ 4H ₂ O, Ba $+$ 4H ₂ O, Ag, (A. 331, 168 C. 1904 [1] 1211).
	13) Dibenzoat d. 3, 5-Dioxy-1, 2-Dimethylbenzol. Sm. 100-102° (A. 329, 306 C. 1904 [1] 793).
C ₂₂ H ₁₈ O ₅	9) Aethylester d. Hydrochinonphtalincarbonsäure. Sm. 188—189° (B. 36, 2958 C. 1903 [2] 1006).
$egin{array}{c} { m C_{22}H_{18}O_6} \ { m C_{22}H_{18}O_7} \end{array}$	12) Verbindung (aus Ononetin). Sm. 190° (M. 24, 140 C. 1903 [1] 1033). *3) Triacetat d. 7-Oxy-4-Methylen-2-[2,4-Dioxyphenyl]-1,4-Benz-
	pyran (1r. d. Resaceteïn). Sm. 239—240° (B. 36, 734 C. 1903 [1] 840; B. 37, 364 C. 1904 [1] 671).
	*4) Triacetat d. Verb. C ₁₈ H ₁₂ O ₄ . Sm. 190—194° u. Zers. (M. 25, 885 C. 1904 [2] 1313).

4) Cocaflavetin + 3H₂O. Sm. 230° (J. pr. [2] 66, 415 C. 1903 [1] 528). 5) α -Phenylimido- $\alpha\gamma$ -Diphenyl- β -Buten. Sm. 229° (M. 25, 424 C. 1904 $C_{22}H_{18}O_{9}$ $C_{22}H_{19}N$ 6) 3, 5-Diphenyl-1-[2, 4-Dimethylphenyl]-1, 2, 4-Triazol. Sm. 850 (J. pr. [2] 67, 490 C. 1903 [2] 250). 4) 6-Dimethylamido-2, 3-Diphenyl-1, 4-Benzdiazin. Sm. 193-1940 $C_{22}H_{19}N_3$ (B. 37, 2616 C. 1904 |2| 517). 2) α -Keto- $\alpha\gamma\gamma$ -Triphenylbutan. Sm. 103° (Am. 31, 658 C. 1904 [2] 447). C22H:00 3) γ-Keto-ααγ-Triphenyl-β-Methylpropan. Sm. 105° (Am. 31, 657 C. 1904 [2] 446). 11) Acetat d. 4-Oxy-3-Methyltriphenylmethan. Sm. 63-64° (B. 36, 3561 C. 1903 [2] 1374).
5) 4-Acetat d. α,4-Dioxy-3-Methyltriphenylmethan. Sm. 127—128° (B. 36, 3559 C. 1903 [2] 1374). $C_{22}H_{20}O_2$ $C_{22}H_{20}O_3$ 6) 4-Oxy-2,5-Dimethyltriphenylessigsäure. Zers. bei 236-237° (B. 37, 666 C. 1904 [1] 952). 7) Anhydrid d. $\alpha \vartheta$ -Diphenyl- $\beta \zeta$ -Oktadiën- $\delta \epsilon$ -Dicarbonsäure. Sm. 164° (A. 331, 171 C. 1904 [1] 1212). 10) Diphenoxylmethylenäther d. 3,4-Dioxy-l-Propylbenzol. Sd. 256 $C_{22}H_{20}O_4$ bis 258°₁₇ (C. r. 138, 424 C. 1904 [1] 798). 11) 3, 3'-Dioxytriphenylessigdimethyläthersäure. Sm. 246° (B. 37, 4037 C. 1904 [2] 1600). *3) Acetat d. β-Dehydrohämatoxylintetramethyläther (A. d. Pentaoxyrufindentetramethyläther). Sm. 193—196° (B. 36, 2203 C. 1908 [2] 382; $C_{22}H_{20}O_7$ B. 37, 633 C. 1904 [1] 955).
6) Aethylester d. 4,7-Diacetoxyl-2-Phenyl-1,4-Benzpyran-4-Carbonsäure. Fl. (B. 36, 1952 C. 1903 [2] 296).
7) Acetat d. α-Dehydrohämatoxylintetramethyläther. Sm. 165-171° (B. 37, 633 C. 1904 [1] 955). 8) α-Acetat d. Pentaoxybrasantetramethyläther. Sm. 194° (B. 36, 3714 C. 1904 [1] 39).
 β-Acetat d. Pentaoxybrasantetramethyläther. Sm. 196° (B. 36, 2204 C. 1903 [2] 382; B. 36, 3714 C. 1904 [1] 39). 4) Diacetat d. 1,2,3,5,6,7-Hexaoxy-9,10-Anthrachinontetramethyläther. Sm. 262° u. Zers. (D.R.P. 151724 C. 1904 [1] 1586; C. 1904 C22H20O10 [2] 709). 12) γ -Phenylhydrazon- $\alpha\gamma$ -Diphenyl- β -Methylpropen. Sm. 131° (Am. 31, $C_{22}H_{20}N_2$ 656 C. 1904 [2] 446). 3) Tri[Benzylidenamido]guanidin. Sm. 196°. HCl (B. 37, 3548 C. 1904 $\mathbf{C}_{22}\mathbf{H}_{20}\mathbf{N}_{6}$ [2] 1379). C 88,3 — H 7,0 — N 4,7 — M. G. 299. $C_{22}H_{21}N$ 1) 5-Methyl-2,4-Diphenyl-5,6,7,8-Tetrahydrochinolin. Sm. 112-113°. HCl, (2HCl, PtCl₄), Pikrat (B. 35, 3980 C. 1903 [1] 37). *1) α-Chlortri[4-Methylphenyl]methan. Sm. 173° (181°). + AlCl₃ (B. 37, 1627 C. 1904 [1] 1648; B. 37, 3156 C. 1904 [2] 1048).

1) α-Bromtri[4-Methylphenyl]methan. Sm. 161-163° (B. 37, 3156 C. 1904 [2] 1048). $C_{22}H_{21}Cl$ $\mathbf{C}_{99}\mathbf{H}_{91}\mathbf{Br}$ 1) α -Jodtri[4-Methylphenyl]methan. $+ J_2$ (B. 37, 3157 C. 1904 [2] 1048). $C_{22}H_{21}J$ *3) α - Oxytri [4 - Methylphenyl] methan. Sm. 123-124° (94°; 96,5°). 3) α - Οχγιτι [2 - Μετηγιρησηγη μετιαπ. Sm. 123-124° (94°; 99,5°). + C₂H₄O₂ (Sm. 87°) (B. 36, 1589 C. 1903 [2] 111; B. 37, 1630 C. 1904 [1] 1648; B. 37, 3153 C. 1904 [2] 1047. 4) α-Oxytribenzylmethan. Sm. 108-111° (114°) (B. 36, 1589 C. 1903 [2] 111; B. 36, 3089 C. 1903 [2] 1004; B. 36, 3237 C. 1903 [2] 950; B. 37, 1456 C. 1904 [1] 1353). C22H22O

5) Aethyläther d. 4-Oxy-3-Methyltriphenylmethan. Sm. 75° (B. 36, 3562 C. 1903 [2] 1374). C 83,0 — H 6,9 — O 10,1 — M. G. 318.

 $C_{22}H_{22}O_2$

Coo Hoo O4

1) Dimethyläther d. α , 4-Dioxy-3-Methyltriphenylmethan. Sm. 91—92° (B. 36, 3560 C. 1903 [2] 1374).

 (B. 36, 3500 c. 1200 [2] 13(4).
 2) α-Aethyläther d. α, 4-Dioxy-8-Methyltriphenylmethan. Sm. 150 bis 151° (B. 36, 3565 C. 1903 [2] 1375).
 7) αθ-Diphenyl-βζ-Oktalian-δε-Dicarbonsäure. Sm. 182°. Ba, Ag₂ (A. 331, 170 C. 1904 [1] 1211).

$\mathbf{C}_{22}\mathbf{H}_{22}\mathbf{O}_4$	8) Diäthylester d. $\alpha\delta$ -Diphenyl- $\alpha\gamma$ -Butadiën- $\beta\gamma$ -Dicarbonsäure. Sm. 110,5° (B. 37, 2244 C. 1904 [2] 328).
$C_{22}H_{22}O_5$	9) Diacetat d. o-Dioxyreten. Sm. 171° (D.R.P. 151981 C. 1904 [2] 167). 5) 7-Acetat d. 7-Oxy-4-Methylen-2-[2,4-Dioxyphenyl]-1,4-Benzpyran-
$\mathbf{C}_{22}\mathbf{H}_{22}\mathbf{O}_{7}$	2 ² ,2 ⁴ -Diäthyläther. Sm. 228—24 ² (B. 37, 361 C. 1904 [1] 671). 2) Verbindung (aus 4-Nitroso-1-Dimethylamidobenzol u. Benzoylessig-
$C_{22}H_{22}O_8$	säureäthylester). Sm. $91,5^{\circ}$ (B. 36, 323° C. 1903 [2] 941). 14) Tetraacetat d. $\alpha\beta$ -Dioxy- $\alpha\beta$ -Di[4-Oxyphenyl]äthan. Sm. 172—173°
2222 8	(A. 335, 190 C. 1904 [2] 1131). 15) Tetraacetat d. isom. $\alpha\beta$ -Dioxy- $\alpha\beta$ -Di[4-Oxyphenyl äthan. Sm. 124
CEIN	bis 125° (A. 335, 190 C. 1904 [2] 1131). 10) α-Phenylhydrazon-αγ-Diphenylbutan. Sm. 78—79° (A. 330, 233
$\mathbf{C}_{22}\mathbf{H}_{22}\mathbf{N}_2$	C. 1904 [1] 945).
	11) α -[4-Aethylbenzyliden]- β -Phenyl- β -Benzylhydrazin. Sm. 104° ($C. r.$ 137, 717 $C.$ 1903 [2] 1433).
$\mathbf{C}_{22}\mathbf{H}_{22}\mathbf{N}_{6}$	4) 2,4,2'-Triamido-5-[1-Amido-2-Naphtyl]amidodiphenylamin. 4HCl (B. 37, 3891 C. 1904 [2] 1654).
$\mathbf{C_{22}H_{28}N}$	3) α-Amidotri[4-Methylphenyl]methan. Sm. 97° (B. 37, 3158 C. 1904 [2] 1048).
$C_{22}H_{24}O_4$	13) Diacetat d. αβ-Di[4-Oxy-2, 5-Dimethylphenyl]äthen. Sm. 185 bis 186° (B. 36, 1893 C. 1903 [2] 292).
$\mathbf{C}_{22}\mathbf{H}_{24}\mathbf{O}_{5}$	C 71,7 — H 6,5 — O 21,7 — M. G. 368. 1) 7-Acetat d. 7-Oxy-4-Methyl-2-[2,4-Dioxyphenyl]-1,4-Benzpyran-
C TT O	$2^{2}, 2^{4}$ -Diäthyläther. Sm. 118° (B. 37, 362 C. 1904 [1] 671).
$\mathbf{C}_{22}\mathbf{H}_{24}\mathbf{O}_{6}$	7) bim. o-Cumaräthyläthersäure. Sm. 273—274° (B. 37, 1385 C. 1904 [1] 1344).
$C_{22}H_{24}O_{12}$	C 55,0 — H 5,0 — O 40,0 — M. G. 480. 1) Carminsäure. K (Soc. 83, 139 C. 1903 [1] 90, 466).
$\mathbf{C}_{22}\mathbf{H}_{24}\mathbf{N}_2$	8) Verbindung (aus 2-Methylindol u. Isobuttersäurealdehyd). Sm. 207° (B. 36, 4327 C. 1904 [1] 462).
$\mathbf{C}_{22}\mathbf{H}_{24}\mathbf{N_4}$	3) β -[6-Phenylazo-4-Phenylhydrazon-5-Methyl-1, 2, 3, 4-Tetrahydrophenyl-2-] propen. Sm. 147° (A. 330, 270 C. 1904 [1] 948).
	4) Verbindung (aus C-Acetyldimethylhydroresorcin). Sm. 1900 (B. 37)
$C_{22}H_{26}O_4$	3381 C. 1904 [2] 1219). 10) Dimethyläther d. $\beta\eta$ -Diketo- $\delta\varepsilon$ -Di[4-Oxyphenyl]oktan. Sm. 151 bis 152° (A. 330, 236 C. 1904 [1] 945).
$\mathbf{C_{22}H_{26}O_7}$	*2) Limonin. Sm. 275° (Ar. 240, 661 C. 1903 [1] 406). *3) Divaricatsäure (A. 336, 55 C. 1904 [2] 1325).
$\mathbf{C}_{22}\mathbf{H}_{26}\mathbf{O}_{8}$	C 63,2 — H 6,2 — O 30,6 — M. G. 418.
	1) Dibenzylidenverbindung d. Oktit (aus Rosaceen). Sm. 230° (C. r. 127, 761). — *III, 6.
$C_{22}H_{28}O_8$	4) Diacetoxyl-α-Dicamphylsäure. Sm. 174—175° (Soc. 83, 865 C. 1903 [2] 573).
$C_{22}H_{80}O_{2}$	4) Benzoat d. Gurjuresinol. Sm. 106-107° (Ar. 241, 389 C. 1903 [2] 724).
$C_{22}H_{84}O_{2} \\ C_{22}H_{84}O_{3}$	5) Acetat d. Verbindung $C_{20}H_{32}O$. Sm. 72—73° (C. 1904 [1] 1265). 5) α -Oxy- α α -Dicamphoryläthan (Methyldicamphorylcarbinol). Sm. 148
$\mathbf{C}_{22}\mathbf{H}_{36}\mathbf{O}$	DIS 149° (D. 30, 2030 U. 1903 [2] 626).
$C_{22}H_{36}O_{2}$	*2) Pentadekylphenylketon (C. 1904 [1] 1259). *5) Pentadekyl-4-Oxyphenylketon. Sm. 78° (B. 36, 3891 C. 1904 [1] 93).
	7) Propionat d. Spongosterin. Sm. 135—136° (H. 41, 115 C. 1904 [1] 996).
$C_{22}H_{38}O_{10}$	C 57,4 — H 7,8 — O 34,8 — M. G. 460. 1) Verbindung (aus Essigsäure u. Camphersäure) (R. 21, 353 C. 1903 [1]
$\mathbf{C}_{22}\mathbf{H}_{36}\mathbf{O}_{18}$	C 44,9 — H 6,1 — O 49.0 — M. G. 588.
$C_{22}H_{38}O_4$	1) Leinsamenschleim (B. 36, 3198 C. 1903 [2] 1054). *2) Dimenthylester d. Oxalsäure. Sm. 68° (C. 1903 [1] 162; B. 37, 1378
$\mathbf{C}_{22}\mathbf{H}_{40}\mathbf{O}_2$	C. 1904 [1] 1441). *1) Behenolsäure. Sm. 57,5° (G. 34 [2] 53 C. 1904 [2] 693). 3) Isobornylester d. Laurinsäure. Sd. 202° (C. r. 136, 239 C. 1903 [1] 584).
$C_{22}H_{40}O_{3}$	
22 40 78	C 75,0 — H 11,4 — O 13,6 — M. G. 352. 1) Isobutylester d. Ricinolsäure. Sd. 262 % (B. 36, 785 C. 1903 [1] 824).

3) Methylester d. Propionylricinolsäure. Sd. 260 % (B. 36, 787 C. 1903 C22H40O4 [1] 824).

4) Aethylester d. Acetylricinolsäure. Sd. 255-260 as (B. 36, 786 C. 1903 [1] 824).

*1) μ -Keto- κ -Methyl- κ -Heneikosen. Sd. 214 -216_{10}^{0} (B. 36, 2556 C. 1903) $C_{22}H_{42}O$ [**2**] 655).

*3) Isoerukasäure. Sm. 54-56° (G. 34 [2] 50 C. 1904 [2] 693).
*3) Phellonsäure. Sm. 96° (M. 25, 279 C. 1904 [1] 1572).
6) Isophellonsäure. Sm. 73° (M. 25, 293 C. 1904 [1] 1573). $C_{22}H_{42}O_2$ $C_{22}H_{42}O_3$

- 7) Glycidsäure (aus Chloroxybehensäure). Sm. 64° (B. 36, 3605 O. 1903 [2] 1314).
- 8) Glycidsäure (aus ?-Brom-?-Acetoxylbehensäure). Sm. 69-71° (C. 1903 [1] 319).
- 9) Glycidsäure (aus d. isom. Chloroxybehensäure). Sm. 71° (B. 36, 3605 C. 1903 [2] 1314).
- 10) Butylester d. Ricinolsäure. Sd. 275 18 (B. 36, 784 C. 1903 [1] 824).
- $C_{22}H_{44}O_4$
- *1) Dioxybehensäure. Sm. 99° (J. pr. [2] 67, 297 C. 1903 [1] 1404; J. pr. [2] 67, 364 C. 1903 [1] 1404; B. 36, 3605 C. 1903 [2] 1314).
 *2) isom. Dioxybehensäure (aus Brassidinsäure). Sm. 130—132° (132 bis 133°) (C. 1903 [1] 319; J. pr. [2] 67, 299 C. 1903 [1] 1404; J. pr. [2] 67, 365 C. 1903 [1] 1404; B. 36, 3605 C. 1903 [2] 1314).
- C 83,6 H 7,6 N 8,8 M. G. 316.
 1) Di[Undekyliden]hydrazin. Sm. 57° (Bl. [3] 29, 1206 C. 1904 [1] $C_{22}H_{44}N_{2}$ 355).
- $C_{22}H_{48}O$ *1) Aether d. β -Oxyundekan. Sd. 198—200 $^{\circ}_{10}$ (B. 36, 2549 C. 1903 [2] 654).
- 2) Aether d. α -Oxyundekan (*Bl.* [3] 29, 1207 *C.* 1904 [1] 355). C 67,7 H 11,8 O 20,5 M. G. 390. $C_{22}H_{46}O_5$ 1) Leiphämsäure. Sm. 114-115° (A. 327, 351 C. 1903 [2] 510).

— 22 III —

- $C_{22}H_{12}O_4N_2$ *1) 1,3-Di[1,2-Phtalylamido]benzol. Sm. 320° (A. 327, 44 C. 1903 [1] 1336).
 - *2) 1, 4 Di [1, 2 Phtalylamido] benzol. Sm. 356° (A. 327, 45 C. 1903 [1] 1336).
 - 3) 1,2-Di[1,2-Phtalylamido]benzol (1,2-Phenylendiphtalimid). Sm. 292° (A. 327, 42 C. 1903 [1] 1336).
- 5) Tetrabrom-α-Orcinphtalein (B. 29, 2632). *II, 1212.
 1) Dimethyläther d. Tetrachlordioxyfluorescein. Sm. $C_{22}H_{12}O_5Br_4$
- $\mathbf{C}_{22}\mathbf{H}_{12}\mathbf{O}_{7}\mathbf{Cl}_{4}$ Sm. 275° (B. 36. 1078 C. 1903 [1] 1182).
- 3) Chinonaphtalon (Phtalon aus Chinaldin u. Naphtalsäureanhydrid). Sm. 256° (B. 37, 3611 C. 1904 [2] 1520).
 6) 3-Keto-2-[I-Naphtyl]imido-2,3-Dihydro-α-Naphtindol (D.R.P. C22H13O2N
- $C_{22}H_{14}ON_2$ 152019 C. 1904 [2] 72).
 - 7) 1-Keto-2-[2-Naphtyl]imido-1,2-Dihydro-β-Naphtindol. Sm. oberli. 180° (D. R. P. 152019 C. 1904 [2] 72).
- $C_{99}H_{14}O_{2}N_{2}$ 11) Phenylamidonaphtophenoxazon. Sm. oberh. 360° (B. 36, 1809) C. 1903 [2] 206).
- 3) 3,8-Di-[Furylidenamido]-5,6-Naphtisodiazin. Sm. 207° (C. 1904) $C_{22}H_{14}O_2N_4$ [1] 1614).
- *1) Rosindonsäure. Sm. 227—228° (B. 36, 3624 C. 1903 [2] 1383).
 2) Isorosindonsäure. Sm. 206° u. Zers. (B. 36, 3623 C. 1903 [2] 1383). $C_{22}H_{14}O_8N_2$
- C₂₂H₁₄O₃Cl₂ 1) Dichlordimethylfluoran (aus 2-Chlor-4-Oxy-1-Methylbenzol). Sm. 285° (D. R. P. 156333 C. 1904 [2] 1673).
 C₂₂H₁₄O₃Br₂ 1) Dibromdimethylfluoran (aus 2-Brom-4-Oxy-1-Methylbenzol). Sm. 284 bis 285° (D. R. P. 156333 C. 1904 [2] 1673).
- $C_{22}H_{14}O_7Br_2$ 1) Aethylester d. Dibromdioxyfluorescein (B. 36, 1082 C. 1903 [1] 1182).
- C22H14O8Br2 1) Dibromdioxyfluorescein (aus Hemipinsäure) (B. 36, 1074 Anm. C. 1903 [1] 1181).
- C₂₂H₁₆ON₈ 13) 2-Naphtylhydrazon d. 2-Naphtylisatin. Sm. 270-272° (B. 36. 1739 C. 1903 [1] 119).

 $\mathbf{C}_{22}\mathbf{H}_{15}\mathbf{O}_{2}\mathbf{C}\mathbf{1}$

 Verbindung (aus Piperonal u. Desoxybenzoïn). Sm. 203—204° (B. 35, 3972 C. 1903 [1] 32).
 Dibenzoat d. 2,3-Dioxypseudoindol. Sm. 170° (B. 37, 947 C. 1904) C22H15O4N [1] 1217). $C^{3}65.8 - H 3.7 - O 19.9 - N 10.5 - M. G. 401.$ C,2H,5O,N, 1) γ -Keto- γ -[4-(3-Nitrobenzyliden)amidophenyl]- α -[3-Nitrophenyl]propen. Sm. 195° (B. 37, 394 C. 1904 [1] 657). 2) γ -Keto- γ -[4-(4-Nitrobenzyliden)amidophenyl]- α -[4-Nitrophenyl]propen. Sm. 191—193° (B. 37, 394 C. 1904 [1] 657).
*1) Triacetat d. Gallorubin. Sm. 234° (B. 37, 829 C. 1904 [1] 1153). $C_{22}H_{15}O_8N$ 17) Dimethylenäther d. 1-[3,4-Dioxybenzyl]-2-[3,4-Dioxyphenyl]benzimidazol. Sm. 115-116°. + C₂H₀O (B. 37, 1703 C. 1904 [1] 1497).
 27) Anilidodihydrogallorubin. Sm. 257° (B. 37, 830 C. 1904 [1] 1153). C 61,1 - H 3,7 - O 22,2 - N 13,0 - M. G. 432. $C_{22}H_{16}O_4N_2$ C,2H,6O,N, $C_{22}H_{16}O_6N_4$ β-Dinitro-3-[4-Dimethylamidophenyl]-β-Naphtochinolin-1-Carbonsäure.
 Sm. 260-263° (B. 37, 1743 C. 1904 [1] 1599).
 C 47,5 — H 2,9 — O 34,5 — N 15,1 — M. G. 556. $C_{22}H_{16}O_{12}N_6$ 1) P-Hexanitrotri [4-Methylphenyl] methan. Sm. 280° (B. 37, 3163) C. 1904 [2] 1049). C 46,2 — H 2,8 — O 36,3 — N 14,7 — M. G. 572. $\mathbf{C_{22}H_{16}O_{13}N_{6}}$ 1) P-Hexanitro-α-Oxytri[4-Methylphenyl]methan. Sm. 253° (B. 37, 3162 C. 1904 [2] 1049). 10) γ -Keto- γ -[4-Benzylidenamidophenyl]- α -Phenylpropen. Sm. 143 bis 144° (B. 37, 392 C. 1904 [1] 657). C₂₂H₁₇ON $C_{22}H_{17}O_{2}N$ 14) 2-Oxy-l-[α -Furalamidobenzyl]naphtalin. Sm. 115—116 $^{\circ}$ (G. 33 [1] 31 C. 1903 [1] 926). $C_{22}H_{17}O_2N_8$ 6) 2-[4-Dimethylamidophenylazo]-9,10-Anthrachinon. Sm. 264-2669 (C. 1904 [1] 289). 1) Lakton d. P-Brom-6-Oxy-3, 4-Dimethyltriphenylessigsäure. Sm. 1610 $C_{22}H_{17}O_2Br$ (B. 37, 666 C. 1904 [1] 952). 10) Aethylrhodol (D.R.P. 116415). — *III, 578. $C_{22}H_{17}O_4N$ 11) Dimethylrhodol. HCl (D.R.P. 108419). — *III, 578. $C_{22}H_{17}O_5N$ 5) Aethylester d. 2,4,9-Triketo-1-[4-Methylphenyl]-2,3,4,9-Tetrahydro-ββ-Naphtindol-3-Carbonsäure. Sm. 280° u. Zers. (E. Hoyer, Dissert., Berlin 1901). 6) Amid d. 2,5-Dibenzoxylbenzol-I-Carbonsäure. Sm. 204° (Journ. of Physiologie 27, 92). — *II, 1031. $\mathbf{C}_{22}\mathbf{H}_{17}\mathbf{O}_{7}\mathbf{N}_{5}$ C 57,0 — H 3,7 — O 24,2 — N 15,1 — M. G. 463. 1) α -Cyan- β -[3-Nitrophenyl]akrylsäureamid + α -Cyan- β -[3-Nitrophenyl]akrysäureäthylester. Sm. 186,5° (C. 1904 [1] 878). 2) α -Cyan- β -[4-Nitrophenyl]akrylsäureamid $+ \alpha$ -Cyan- β -[4-Nitrophenyl]akrylsäureäthylester. Sm. 194—195° (C. 1904 [1] 878). 1) Benzyläther d. 6-Merkapto-4-Thiocarbonyl-1, 2-Diphenyl-1, 4-Di-C22H17N8S2 hydro-1,3,5-Triazin? Sm. 190-191° (Am. 30, 178 C. 1903 [2] 872). 15) N-Aethyl-α'-Phenylpyrophtalin. Sm. 194°. (2 HCl, PtCl₄) (B. 36, $C_{22}H_{18}ON_2$ 3922 C. 1904 [1] 98). $C_{22}H_{18}O_{2}N_{2}$ 12) 1 - Methylamido - 4 - [4 - Methylphenyl]amido - 9,10 - Anthrachinon (D.R.P. 139581 C. 1903 [1] 680). 13) 1-Methylamido-5-Benzylamido-9,10-Anthrachinon (D.R.P. 144634 C. 1903 [2] 751). 14) 1-Methylamido-5-[4-Methylphenyl]amido-9,10-Anthrachinon. Sm. 199° (D.R.P. 139581 C. 1903 [1] 680). 15) 1 - Methylamido - 8 - [4 - Methylphenyl] amido - 9,10 - Anthrachinon (D.R.P. 139581 O. 1903 [1] 680). 16) 3-[4-Dimethylamidophenyl]- β -Naphtochinolin-1-Carbonsäure. Sm. 293—295° (B. 37, 1743 C. 1904 [1] 1599). 4) s-Dimethylrhodamin (D.R.P. 48731). — *III, 575. $C_{22}H_{18}O_8N_2$ 9) Di[Phenylimid] d. cis-Hexahydrobenzol-1, 2, 4, 5-Tetracarbonsäure. C22H18O4N3 $C_{22}H_{13}O_4N_6$ $C_{22}H_{18}O_4Cl_6$ methylen-2, 4-Dicarbonsäure. Sm. 178° (B. 37

1904 [1] 588).

- 3) 1,4-Diacetat d. 2,5-Dimerkapto-1,4-Dioxybenzol-2,5-Diphenyl-C22H18O4S2 äther. Sm. 168-168,50 (A. 336, 135 C. 1904 [2] 1298).
 - 4) 1,4-Diacetat d. 2,6-Dimerkapto-1,4-Dioxybenzol-2,6-Diphenyläther. Sm. 112-1140 (A. 336, 137 C. 1904 [2] 1299).
- 1) Tetraacetat d. $\alpha\beta$ -Dioxy- $\alpha\beta$ -Di[3,5-Dichlor-4-Oxyphenyl]äthan. Sm. 173° (A. 325, 61 C. 1903 [1] 462). $C_{22}H_{18}O_8Cl_4$
 - 2) Tetraacetat d. isom. $\alpha\beta$ -Dioxy- $\alpha\beta$ -Di[3,5-D athan. Sm. 180° (A. 325, 62 C. 1903 [1] 462). isom. $\alpha\beta$ -Dioxy- $\alpha\beta$ -Di[3, 5-Dichlor-4-Oxyphenyl]-
- 2) Tetraacetat d. $\alpha\beta$ -Dioxy- $\alpha\beta$ -Di β -Dibrom-4-Oxyphenyl]äthan. $\mathbf{C}_{22}\mathbf{H}_{18}\mathbf{O}_{8}\mathbf{Br}_{4}$ Sm. 231° (A. 325, 40 C. 1903 [1] 461).
 - 3) Tetraacetat d. isom. αβ-Dioxy-αβ-Di|3,5-Dibrom-4-Oxyphenyl]- äthan? Sm. 191° (A. 325, 41 C. 1903 [1] 461).
 1) 1-[2-Chlorphenyl]-3,5-Di[4-Methylphenyl]-1,2,4-Triazol. Sm. 159°
- C₂₂H₁₈N₈Cl (J. pr. [2] 67, 495 C. 1903 [2] 251). 2) 1-[3-Chlorphenyl]-3,5-Di[4-Methylphenyl]-1,2,4-Triazol. Sm. 121°

 - 2) 1-[3-0:niorpinenyi]-3, 3-Di[4-methylphenyi]-1, 2, 4-Triazol. Sm. 121° (J. pr. [2] 67, 497 C. 1903 [2] 251).
 3) 1-[4-Chlorphenyi]-3, 5-Di[4-Methylphenyi]-1, 2, 4-Triazol. Sm. 155° (J. pr. [2] 67, 499 C. 1903 [2] 251).
 4) Nitrii d. β-Phenylhydrazon-γ-Phenyl-α-[4-Chlorphenyi] buttersäure. Sm. 131° (J. pr. [2] 67, 391 C. 1903 [1] 1357).
 1) 1 (4. Promphenyil) 3.5 Di[4. Methylphenyil] 1.24 Triazol. Sm. 130° (J. pr. [2] 67, 391 C. 1903 [1] 1357).
- 1) 1-[4-Bromphenyl]-3,5-Di[4-Methylphenyl]-1,2,4-Triazol. Sm. 168° C22 H18 N3 Br (J. pr. [2] 67, 501 C. 1903 [2] 251).
- 2) γ -Chlor- α -Keto- $\alpha\beta$ -Diphenyl- γ -[4-Mothylphenyl]propan. Sm. 156° C22H19OCl (B. **35,** 3966 C. **1903** [1] 30).
- 8) 4-Methyläther d. γ -Oximido- $\beta\gamma$ -Diphenyl- α -[4-Oxyphenyl]propen. Sm. 155° (B. 35, 3971 C. 1903 [1] 31). $C_{22}H_{19}O_2N$
- 9) Phenylamidoformiat d. 6-Oxy-3-Methyl- α α -Diphenyläthen. Sm. 101^{0} (B. 36, 4002 C. 1904 [1] 174).
- 6) 2, 8 Diamido 3, 7 Dimethyl 5 Phenylakridin 52 Carbonsäure $C_{22}H_{19}O_2N_3$ (D.R.P. 141356 C. 1903 [1] 1284). C 68,6 — H 4,9 — O 8,3 — N 18,2 — M. G. 385. $C_{22}H_{19}O_2N_5$
- 1) $\gamma \delta$ -Di[Phenylhydrazon]- α -[3-Nitrophenyl]- α -Buten. Sm. 206—207°
- (C. 1904 [1] 28; A. 330, 253 C. 1904 [1] 946.
 Methyläther d. γ-Chlor-α-Keto-αβ-Diphenyl-γ-[2-Chlorphenyl]-propan. Sm. 144° (B. 35, 3971 C. 1903 [1] 31).
 Methylhydroxyd d. 5-Phenylakridin-5²-Carbonsäuremethylester. $C_{22}H_{19}O_{2}C1$
- $C_{22}H_{19}O_8N$ Methylsulfat, Trichromat, Pikrat (B. 37, 1008 C. 1904 [1] 1276).
 - 6) Benzoat d. N-Benzoyl-β-Phenylamido-α-Oxyäthan. Sm. 91—92°
 (A. 332, 211 C. 1904 [2] 211; B. 37, 3942 C. 1904 [2] 1597).
 3) Phenylmonamid d. αβ-Di[2-Amidophenyl]äthen-αβ-Dicarbonsäure
- C29 H10 O3 N3 (A. 332, 270 C. 1904 [2] 701). C 65,8 — H 4,7 — O 12,0 — N 17,5 — M. G. 401.
- $C_{22}H_{19}O_3N_5$ 1) 4'- Dimethylamido - 4 - $[\alpha$ - Cyanbenzyliden] amido - 3 - Oxydiphenyl-
- amin. Sm. 213—214° (J. pr. [2] 69, 239 C. 1904 [1] 1269). 2) P-Brom-4-Oxy-2,5-Dimethyltriphenylesssigsäure. Sm. 232-2350 $C_{22}H_{19}O_8Br$ (B. **37**, 668 C. **1904** [1] 953).
- 11) Dimethyläther d. Phenolphtaleinoxim. Sm. 178° (B. 36, 2965 $C_{22}H_{19}O_4N$ C. 1903 [2] 1007).
- 12) Dibenzoat d. 2- $[\beta\beta'$ -Dioxyisopropyl]pyridin. Sm. 90—91° (B. 37, 741 *C.* **1904** [1] 1089).
- C22H19O4N8 4) γ-[4-Nitrophenyl]hydrazon-αγ-Diphenylbuttersäure. Sm. 188—189° Sec. 85, 1363 C. 1904 [2] 1646).
 - 5) Di[4-Methylphenylamid] d. 3-Nitrobenzol-1,2-Dicarbonsäure. Sm.
- 223—225° u. Zers. (C. 1903 [2] 431).
 1) Diäthylester d. 1-Chlor-1,4-Di[2,4-Dichlorphenyl]-R-Tetramethylen-2,4-Dicarbonsäure. Sm. 142° (B. 37, 221 C. 1904 [1] 588). C 60,4 H 4,3 0 25,6 N 9,6 M. G. 437. C22H19O4C15 $C_{22}H_{19}O_7N_3$
- 1) P-Trinitro-α-Oxytri[4-Methylphenyl]methan. Sm. 162° (B. 37, 3162) C. 1904 [2] 1049).
- $C_{22}H_{19}O_8N_5$
- C 54,9 H 3,9 O 26,6 N 14,6 M. G. 481.

 1) Aethylester d. 2, 4, 6 Trinitro 3,5 Di [Phenylamido] essigsäure. Sm. 201°. + 2 C₆H₆ (Am. 32, 176 C. 1904 [2] 951).
- 1) 4'-Cinnamylidenamido-4-Methyldiphenylsulfid. Sm. 118° (J. pr. [2] C22H19NS **68**, 273 *C*. **1903** [2] 993).

 $\mathbf{C}_{22}\mathbf{H}_{22}\mathbf{O}_{3}\mathbf{N}_{2}$

 $C_{22}H_{19}N_8S$ 2) 5-Phenyl-4-Benzyl-1-[4-Methylphenyl]-4,5-Dihydro-1,2,4-Triazol-3,5-Sulfid. Sm. 234° (J. pr. [2] 67, 261 C. 1903 [1] 1266). 1) Diäthyläther d. 3, 5-Dimerkapto-4-Thiocarbonyl-1-Keto-2, 6- $\mathbf{C_{22}H_{20}OS_3}$ Diphenyl-1,4-Dihydrobenzol. Sm. 141,5-142° (B. 37, 1606 C. 1904 [1] 1444). $C_{22}H_{20}O_2N_2$ 27) α -Benzoyl- $\alpha\beta$ -Di[4-Methylphenyl]harnstoff. Sm. 152-153° (B. 37, 3118 C. 1904 [2] 1317). 28) isom. $\alpha\beta$ -Diacetyl- α -Phenyl- β -[4-Biphenyl]hydrazin. Sm. 176° (C. 1904 [1] 1491). 29) isom. $\alpha\beta$ -Diacetyl- α -Phenyl- β -[4-Biphenyl]hydrazin. Sm. 2170 $(\textit{C. 1904 [1] 1491}). \\ \textbf{C}_{22}\textbf{H}_{20}\textbf{O}_{3}\textbf{N}_{2} \quad \textbf{11)} \text{ Aethyläther d. 2, 5-Di[Benzoylamido]-1-Oxybenzol.}$ Sm. 213° (B. 36, 4098 C. 1904 [1] 270; B. 36, 4125 C. 1904 [1] 273). 3) γ -[4-Methylphenyl]sulfon- α -Keto- $\alpha\gamma$ -Diphenylpropan. C22H20O8S Sm. 169 bis 170° (Am. 31, 182 C. 1904 [1] 877). — *III, 169. $C_{22}H_{20}O_4N_2$ 19) 1,3-Di[Phenylamidomethyl]benzol- I^2 , 3^2 -Dicarbonsäure (m-Xylylen-Sm. 247° u. Zers. dianthranilsäure). K₂, Ca, Fe₂ (B. 36, 1674 C. 1903 [2] 28). $C_{22}H_{20}O_4N_4$ *1) Phloroglucinbutanondisazobenzol. Sm. 234—235° (Ar. 242, 498) C. 1904 [2] 1418). 3) $\alpha\alpha$ -Di[4-Nitrobenzyl]- β -[4-Methylbenzyliden]hydrazin. Sm. 163° (R. 22, 439 C. 1904 [1] 15).
4) Aethylester d. 4, 6-Diphenylazo-3, 5-Dioxy-1-Methylbenzol-2-Carbonsäure. Sm. 186° . $+ C_2H_4O_2$ (B. 37, 1409 C. 1904 [1] 1416). 1) 3, 3'- Dinitroazoxybenzol - 4, 4'- Di [Isopropyl - $\beta\beta'$ - Dicarbonsäure] (B. 36, 2675 C. 1903 [2] 948). $C_{22}H_{21}ON$ 10) α-Oximido-αγγ-Triphenylbutan. Sm. 163° (Am. 31, 658 C. 1904 [2] 447). 11) γ -Oximido- $\alpha\alpha\gamma$ -Triphenyl- β -Methylpropan. Sm. 145° (Am. 31, 657) C. 1904 [2] 446). 12) N-Acetyl-2-Methylamidotriphenylmethan. Sm. 147,5—148,5° (B. 37, 3207 C. 1904 [2] 1473). 2) α - [4 - Methylphenyl] azomethylenamido - α - [4 - Methylphenyl] - β - Phenylharnstoff. Sm. 184—185° (B. 36, 1373 C. 1903 [1] 1343). $C_{22}H_{21}ON_5$ 8) Benzyläther d. 4-Dimethylamido-3'-Oxydiphenylketon.
 (D.R.P. 65952). — *III, 153.
 9) α-[2-Naphtyl]amido-β-Acetyl-γ-Keto-α-Phenylbutan. $\mathbf{C}_{22}\mathbf{H}_{21}\mathbf{O}_{2}\mathbf{N}$ (Soc. 85, 1175 C. 1904 [2] 1215). 10) Benzoat d. 4'-Dimethylamido-4-Oxydiphenylmethan. Sm. 118 bis 118,5° (A. 334, 340 C. 1904 [2] 989).
 3) Propylester d. β-Cyan-αγ-Dibenzoylpropan-β-Carbonsäure. Sm. 114° $\mathbf{C}_{22}\mathbf{H}_{21}\mathbf{O}_4\mathbf{N}$ (A. ch. [7] 10, 174). — *ÍI, 1188. Monoacetat d. Chelidonin. Sm. 161° (C. 1904 [1] 1224). $\mathbf{C}_{22}\mathbf{H}_{21}\mathbf{O}_{6}\mathbf{N}$ Diäthylester d. β -Phtalylamido- α -Phenyläthan- $\beta\beta$ -Dicarbonsäure. Sm. 105—106° (C. 1903 [2] 33). $C_{22}H_{21}O_{18}Br_3$ 1) Dibromcarminsäurehydrobromid. HBr (B. 33, 152). — *II, 1228. $C_{22}H_{21}N_3S$ 1) Methyläther d. α -[α -Benzyl- β -Benzylidenhydrazido]- α -Phenylimido-α-Merkaptomethan. Sm. 104° (B. 37, 2329 C. 1904 [2] 313). $\mathbf{C}_{22}\mathbf{H}_{22}\mathbf{ON}_{2}$ $15) \ \ \textbf{4-Dimethylamido-4'-Methylphenylamidodiphenylketon.}$ bis 142° (D.R.P. 44077). — *III, 149. 16) Aethylbenzyl-4-Benzoylamidophenylamin. Sm. 131,5° (A. 334, 263 C. 1904 [2] 902). 17) α -[4-Methylbenzoyl]- $\alpha\beta$ -Di[2-Methylphenyl]hydrazin. Sm. 132° (C. r. 137, 714 C. 1903 [2] 1428). 7) 3-Oxy-2,6-Di[Phenylhydrazonmethyl]-1,4-Dimethylbenzol. C22 H22 ON4 209° u. Zers. (B. 35, 4105 C. 1903 [1] 149). Sm. $C_{22}H_{22}O_2N_2$ 6) 3 - Acetylamido - 2 - Methyl - 1, 2 - Naphtakridin - 4 - Methylbenzolsulfonat (A. 327, 122 C. 1903 [1] 1221).
4) Diacetylderivat d. 7-[4-Dimethyla

naphtalin. Sm. 100° (J. pr. [2] 69, 244 C. 1904 [1] 1269).

7-[4-Dimethylamidophenyl]amido-2-Oxy-

- $C_{22}H_{22}O_{8}S$ 1) Tri[4-Methylphenyl]methan- α -Sulfonsäure. Na + H₂O (B. 37, 3158 C. 1904 [2] 1048).
- 2) 2,4,2',4'-Tetraketo-5,5,5',5'-Tetramethyl-3,3'-Diphenyloktohydro-C22H22O4N6 **1,1'-Azoimidazol.** Zers. bei 270° (C. 1904 [2] 1029).
- C₂₂H₂₂O₄Br₂ *1) Diäthylester d. 1,3-Di[4-Bromphenyl]-R-Tetramethylen-2,4-Dicarbonsäure (B. 37, 220 Anm. C. 1904 [1] 588).
- $C_{22}H_{22}O_4Br_4$ 1) $\beta\gamma\zeta\eta$ -Tetrabrom- $\alpha\vartheta$ -Diphenyloktan- $\delta\varepsilon$ -Dicarbonsäure. Sm. 201° (A. 331, 172 C. 1904 [1] 1212).
- C22H22O5N2 3) p-Amidobenzoësäureazodesmotroposantonin. Zers. bei 260° (B. 36, 1392 C. 1903 [1] 1360). C 64,4 — H 5,4 — O 23,4 — N 6,8 — M. G. 410.
- $C_{22}H_{22}O_6N_2$ 1) Di[Phenylmonamid] d. cis-Hexahydrobenzol-1, 2, 4, 5-Tetracarbonsaure. Sm. 172° (Soc. 83, 787 C. 1903 [2] 439).
- C22H22O6Cl4 1) 4,4'-Diacetat d. $\alpha\beta$ -Dioxy- $\alpha\beta$ -Di[3,5-Dichlor-4-Oxyphenyl]äthan- $\alpha\beta$ -Diäthyläther. Sm. 139° (A. 325, 60 C. 1903 [1] 462).
- $C_{22}H_{28}ON$ C 83,3 - H 7,3 - O 5,0 - N 4,4 - M. G. 317.
 - α-Benzylidenamido-α-[2-Oxy-1-Naphtyl]pentan (β-Naphtolvaleral-benzalamin). Sm. 154° (β. 33 [1] 22 β. 1903 [1] 925).
 Tri[4-Methylphenyl]methylhydroxylamin. Sm. 103-105° (B. 37,
 - 3161 C. 1904 [2] 1049). 3) 1-Butyl-3-Phenyl-1, 3-Dihydro-4, $2-\beta$ -Naphtisoxazin. Sm. 128° (G. 33)
 - [1] 22 C. 1903 [1] 925). 4) 3-Butyl-1-Phenyl-1, 3-Dihydro-4, $2-\beta$ -Naphtisoxazin. Sm. 137 ° (G. 33) [1] 22 O. 1903 [1] 925).
- $\mathbf{C}_{22}\mathbf{H}_{23}\mathbf{ON}_{3}$ 2) α -Phenylhydrazon- γ -Hydroxylamido- $\alpha\gamma$ -Diphenylbutan. Sm. 125 bis 126° (A. 330, 231 C. 1904 [1] 944).
- 3) Phenylamid d. Di[2-Methylphenylamido]essigsäure. Sm. 166,5 bis 167,5° (A. 332, 262 C. 1904 [2] 699).

 *1) Gnoskopin (Ar. 241, 267 C. 1903 [2] 447).

 *2) Dehydrocorydalin. HNO₃ + 2H₂O (Soc. 83, 619 C. 1903 [1] 1364). $\mathbf{C}_{22}\mathbf{H}_{23}\mathbf{O}_{4}\mathbf{N}$ 6) Diacetat d. Methylapomorphin. $+ C_6H_6O'(Sm. 85-90°)'(B. 35,$
- 4389 C. 1903 [1] 339). $C_{22}H_{28}O_5N$ 3) Benzoylanhydrocotarninaceton. Sm. 124° (B. 37, 2750 C. 1904 [2] 546).
 - 4) Acetylanhydrocotarninacetophenon. Sm. 139-140° (B. 37, 2749) C. 1904 [2] 546).
- *1) Narcotin (B. 36, 1527 C. 1903 [2] 50; Soc. 83, 617 C. 1903 [1] 590; $C_{22}H_{23}O_7N$
- Ar. 241, 259 C. 1903 [2] 447).
 2) Acetat d. Tetramethylhämatoxylonoxim. Sm. 179—183° (B. 36, 3714 C22H28O8N C. 1904 [1] 38).
- 1) α -Aethyl- β -[4-Aethylbenzylamidophenyl]thioharnstoff. Sm. 149° (A. 334, 264 C. 1904 [2] 902). $C_{22}H_{23}N_3S$
- 4-Diäthylamidophenyl-4-Methylamido-l-Naphtylketon.
 (D. R. P. 84655; B. 37, 1903 C. 1904 [2] 115). *III, 195. $C_{22}H_{24}ON_2$
- 3) 4,6-Dioxy-1,3-Di[4-Methylamidobenzyl]benzol. Sm. 174—175°. 2HCl, H₂SO₄ (M. 23, 993 C. 1903 [1] 289). $C_{22}H_{24}O_2N_2$
- Sm. 275° (B. 36, 1391 C. 1903 $C_{22}H_{24}O_8N_2$ 3) p-Toluidinazodesmotroposantonin. [1] 1359).
- C 60,6 H 6,4 O 14,7 N 19,3 M. G. 436.

 1) Benzylidenhydrazid d. Benzylidentri [Amidoacetyl] amidoessigsäure. Sm. 228° (B. 87, 1298 C. 1904 [1] 1336). $C_{22}H_{24}O_4N_6$
- 3) Tetramethyläther d. 6,7-Dioxy-l-[6-Acetylamido-3,4-Dioxybenzyl]-C22H24O5N2
 - isochinolin. Sm. 162°. + C₆H₆ (Sm. 125°) (B. 37, 1934 C. 1904 [2] 129).
 4) Diäthylester d. 1-Benzoyl-4-Phenyltetrahydropyrazol-3, 5-Dicarbonsäure. Sm. 125° (B. 36, 3779 C. 1904 [1] 41).
- $C_{22}H_{24}O_6N_2$ *5) 2-Methylphenylamid d. d-Diacetylweinsäure. Sm. 229° (Soc. 83. 1366 *C.* **1904** [1] 85).
- C 52,4 H 4,8 O 31,7 N 11,1 M. G. 252. $C_{22}H_{24}O_{10}N_4$ 1) Phenylisocrotonsäuremethylesterpseudonitrosit. Sm. 118° u. Zers.
- (A. 329, 250 C. 1904 [1] 31).
 2) Tetramethyläther d. 6,7-Dioxy-2-Aethyl-1-[3,4-Dioxybenzyliden]- $C_{22}H_{25}O_4N$ 1,2 - Dihydroisochinolin (N-Aethylisopapaverin). Sm. 101°. Pikrat (B. 37, 527 C. 1904 [1] 818).

C 62,4 — H 5,9 — O 15,1 — N 16,5 — M. G. 423. $C_{22}H_{25}O_4N_5$ 1) Benzylidenhydrazid d. α -[α -Benzoylamidoacetylamidopropionyl]amidopropionsäure. Sm. 238° (J. pr. [2] 70, 125 C. 1904 [2] 1037). C 68,9 — H 6,5 — O 20,9 — N 3,7 — M. G. 383. $C_{22}H_{25}O_5N$ 1) Aethylester d. Anhydrocotarninphenylessigsäure. Sm. 91—92°. (2HCl, PtCl₄), HNO₃ (B. 37, 2739 C. 1904 [2] 544).

*1) Colchicin (C. 1903 [2] 1133).

 $\mathbf{C_{22}H_{25}O_6N}$

6) Diacetat d. Oxycodein. Sm. 160-161 (B. 36, 3069 C. 1903 [2] 953). Sm. 162° (B. 36, 2579 C. 1903 $C_{22}H_{25}O_{11}N$ *1) Tetraacetylhelicincyanhydrin. [2] 621).

 $C_{22}H_{26}O_{2}N_{2}$ 16) 3,5-Di[Benzoylamido]-1,1-Dimethylhexahydrobenzol. Sm. 263 bis 264° (A. 328, 110 C. 1903 [2] 245).

 $C_{22}H_{26}O_3N_2$ 9) p-Toluidinazodesmotroposantonigesäure. Sm. 214° (B. 36, 1393 C. 1903 [1] 1360).

10) Cinchonidinkohlensäureäthylester. Sm. 85° (D.R.P. 91370; D.R.P. 118122 C. 1901 [1] 600; D.R.P. 123748 C. 1901 [2] 796). — *III, 641. 11) Methylcarbonat d. Chinin. Sm. 123° (D.R.P. 91370). — *III, 627.

 $C_{22}H_{26}O_4N_2$ *1) d-Corydalin (Soc. 83, 618 C. 1903 [1] 590). C 66,5 — H 6,8 — O 16,1 — N 10,6 — M. G. 397. $C_{22}H_{27}O_4N$

 $C_{22}H_{27}O_4N_3$

1) α -[α -Phenylureidoisocapronyl]amido- β -Phenylpropionsäure. Sm.193 bis 195° u. Zers. (B. 37, 3309 C. 1904 [2] 1306).

2) isom. α -[α -Phenylureïdoisocapronyl]amido- β -Phenylpropionsäure. Sm. 183-184° (B. 37, 3309 C. 1904 [2] 1306).

 $\mathbf{C}_{22}\mathbf{H}_{27}\mathbf{O}_5\mathbf{N}$ 5) 3,4,3',4'-Tetramethyläther- β -Aethyläther d. α -[β -Oxyäthenyl]imidoαβ-Di[3,4-Dioxyphenyl]äthan. Sd. 255—265 $^{\circ}_{0.85}$ (A. 329, 58 C. 1903 [2] 1448).

C₂₂H₂₇O₁₂N *1) Tetraacetylglyko-o-Oxymandelsäureamid. Sm. 2130 (B. 36, 2579) C. 1903 [2] 621).

 $C_{22}H_{28}ON_2$ 2) α -Acetyl α -[2, 4, 6-Trimethylbenzyl]- β -[2, 4, 6-Trimethylbenzyliden]-

hydrazin. Sm. 155° (C. 1903 [1] 142). C₂₂H₂₈O₂N₂ 13) Di[Phenylamid] d. β -Methylheptan- γ ζ -Dicarbonsäure. Sm. 231° (C. r. 136, 458 C. 1903 [1] 696).

 $C_{22}H_{28}O_2N_4$ 3) 3,5-Di[Phenylamidoformylamido]-1,1-Dimethylhexahydrobenzol. Sm. 248° (A. 328, 110 C. 1903 [2] 245).

 $C_{22}H_{28}O_8N_2$ *2) Yohimbin (oder $C_{29}H_{92}O_4N_9$). Sm. 234—234,5°. HCl, HNO, (C. 1897 [2] 978; 1899 [1] 529; B. 37, 1759 C. 1904 [1] 1527; B. 36, 169 C. 1903 [1] 471).

2) Phenylhydrazon d. Glutakonylglutakonsäuretriäthylester. Sm. 126 $C_{22}H_{28}O_6N_2$ bis 127° (C. r. 136, 693 C. 1903 [1] 960).

C22H28N2Cl2 1) polym. Isoamyliden-4-Chlorphenylamin. Sm. 1040 (A. 328, 129 C. **1903** [2] 790).

 $C_{22}H_{23}N_2S_4$ *1) Dipropyläther d. Di[Benzylimidomerkaptomethyl]disulfid (B. 36, 2266 C. 1903 [2] 562).
2) Dibenzyläther d. Di[Propylimidomerkaptomethyl]disulfid.

FI. (B. 36, 2267 C. 1903 [2] 562).

 $C_{22}H_{29}ON_5$ *1) Aethyläther d. 5-Oxy-3-Diäthylamido-4-Phenylazo-3-Methyl-1-Phenyl-2,3-Dihydropyrazol. Sm. 135—136° (B. 36, 1451 C. 1903 [1] 1360).

C₂₂H₂₉O₂N *1) Aethyläther d. 4-Keto-1-[4-Oxy-2-Methyl-5-Isopropylphenyl]imido - 2 - Methyl - 5 - Isopropyl - 1,4 - Dihydrobenzol (B. 36, 2889 C. **1903** [2] 875).

2) Methylhydroxyd d. Methylthebenindimethyläther. (B. 37, 2787 C. 1904 [2] 716). $C_{22}H_{20}O_4N$ Salze siehe

 $C_{22}H_{80}O_2N_2$ 2) O-Aethyläther d. 4-Oximido-1-[4-Oxy-2-Methyl-5-Isopropylphenyl]imido-2-Methyl-5-Isopropyl-1,4-Dihydrobenzol. Sm. 124-1250 (B. 36, 2890 C. 1903 [2] 875).

3) Di[1-Piperidylmethyläther] d. 2,6-Dioxynaphtalin. Sm. 215-2200 u. Zers. (D.R.P. 89979). - *IV, 18.

1) Dicaprylat d. 2, 3, 5, 6-Tetrachlor-1, 4-Dioxybenzol. Sm. 74° (Bl. [3] $\mathbf{C}_{22}\mathbf{H}_{80}\mathbf{O}_{4}\mathbf{Cl}_{4}$ **29**, 1121 *C*. **1904** [1] 259).

1) Jodbenzylat d. d-2-Propyl-1-Benzylhexahydropyridin. Sm. 176° $\mathbf{C}_{22}\mathbf{H}_{30}\mathbf{NJ}$ (B. 37, 3638 C. 1904 [2] 1511).

C22 H30 N.J. 1) Dijodmethylat d. $\alpha\beta$ - Di[1,2,3,4 - Tetrahydro - 1 - Chinolyl] äthan. Sm. 206° u. Zers. (B. 36, 3800 C. 1904 [1] 21).

 $C_{22}H_{81}O_{2}N$ 4) Monoäthyläther d. Di[4-Oxy-2-Methyl-5-Isopropylphenyl]amin (B. 36, 2891 C. 1903 [2] 875).

 $C_{22}H_{83}O_{10}Cl_3$ 1) Verbindung (aus Camphersäure u. Trichloressigsäure) (R. 21, 354 C. 1903 [1] 150).

- $C_{22}H_{38}N_2J$ 1) Jodbenzylat d. Spartein. Sm. 230° (Ar. 242, 517 C. 1904 [2] 1412).
- $C_{22}H_{34}O_{10}Cl_2$ 1) Verbindung (aus Camphersäure u. Dichloressigsäure) (R. 21, 354 C. 1903 [1] 150). $C_{22}H_{35}O_8N$ $C_{73,1} - H_{9,7} - O_{13,3} - N_{3,9} - M_{6,361}$

1) Bornylester d. Camphorylamidoessigsäure. HCl (Ar. 240, 651 C. 1903 [1] 399).

 $C_{22}H_{35}O_4N$ 2) 2-Nitrophenylester d. Palmitinsäure. Sm. 51-52° (A. 332, 205 C. 1904 [2] 211).

C22H35O4N3 C 65,2 - H 8,6 - O 15,8 - N 10,4 - M. G. 405.

1) Trimethyläther d. γ -Semicarbazon- α -[2,4,5-Trioxyphenyl]- α -Dodeken. Sm. 151—152° (Ar. 242, 103 C. 1904 [1] 1008).

 $C_{22}H_{35}O_{10}C1$ 1) Verbindung (aus Camphersäure u. Chloressigsäure) (R. 21, 353 C. 1903 [1] 150).

C22H86O4N2 C 67,4 - H 9,2 - O 16,3 - N 7,1 - M. G. 392.

Verbindung (aus Nitrosodihydrolaurolaktam). Sm. 104° (Am. 32, 291 C. 1904 [2] 1222).

C22H37O2N 4) 2-Oxyphenylamid d. Palmitinsäure. Sm. 78-79° (A. 332, 207 C. 1904 [2] 211).

C22H37O3N C 72.7 - H 10.2 - O 13.2 - N 3.9 - M. G. 363.

1) Menthylester d. Camphorylamidoessigsäure. HCl (Ar. 240, 648 C. 1903 [1] 399).

 $C_{29}H_{38}O_{2}S_{8}$ 1) Anhydrid d. Menthylxanthogensäure. Sm. 148-149° (C. 1904 [1] 1347).

 $C_{22}H_{38}O_2S_4$ *1) Menthyldioxysulfocarbonat. Sm. 92,5—93° (C. 1904 [1] 1347; 1904 [2] 983).

 $C_{29}H_{39}OC1$ 1) Chlorid d. Behenolsäure. Sm. 29-30° (B. 36, 3602 C. 1903 [2]

 $C_{22}H_{40}O_2N_2$ 2) Oxamid d. θ -Amido- $\beta\zeta$ -Dimethyl- β -Okten. Sm. 96° (Bl. [3] 29, 1048 C. 1903 [2] 1439). $C_{22}H_{41}ON$ C 78.8 - H 12.2 - O 4.8 - N 4.2 - M. G. 335.

1) Amid d. Behenolsäure. Sm. 90° (B. 36, 3602 C. 1903 [2] 1314).

C₂₂H₄₁O₂Br *1) Brombrassidinsäure. Sm. 35° (B. 36, 3603 C. 1903 [2] 1314). C₂₂H₄₁O₂J 1) Jodphellansäure (M. 25, 293 C. 1904 [1] 1573).

1) Säure (aus Dibromoxybehensänre). Sm. 44° (B. 36, 3604 C. 1903 [2] $\mathbf{C}_{22}\mathbf{H}_{41}\mathbf{O}_{8}\mathbf{Br}$ 1314).

C₂₂H₄₂O₂Br₂*1) Dibrombehensäure (aus Brassidinsäure). Sm. 54° (J. pr. [2] 67, 312 C. 1903 [1] 1404).

*2) Dibrombehensäure (aus Erukasäure). Sm. 42-43° (J. pr. [2] 67, 310 C. 1903 [1] 1404).

*3) Dibrombehensäure (aus Isoerukasäure). Sm. 44-46° (G. 34 [2] 53 C. 1904 [2] 693).

1) Verbindung (aus Valeraldehyd, Piperidin u. Rubeanwasserstoff). Sm. 1190 $C_{22}H_{42}N_4S_2$ (C. 1899 [2] 1025). — *IV, 18.

C₂₂H₄₂O₃Cl *1) Chloroxybehensäure (aus Brassidinsäure) (B. 36, 3605 C. 1903 [2] 1314).

1) Bromoxybehensäure (aus Brassidinsäure) (B. 36, 3605 C. 1903 [2] $\mathbf{C}_{22}\mathbf{H}_{43}\mathbf{O}_{3}\mathbf{Br}$ 1314). 2) Bromoxybehensäure (aus Erukasäure) (B. 36, 3605 C. 1903 [2] 1314).

1) Bromdioxybehensäure. Sm. 71° (B. 36, 3604 C. 1903 [2] 1314).

 $C_{22}H_{43}O_4Br$ C 71.2 - H 12.1 - O 12.9 - N 3.8 - M. G. 371. $C_{22}H_{45}O_8N$

1) Amidooxybehensäure. Sm. 86° (B. 36, 3606 C. 1903 [2] 1314). C 46,7 — H 8,3 — O 22,7 — N 22,3 — M. G. 565.

C22H47O8N9 1) Kaseinokyrin. 3H₂SO₄ (C. 1904 [2] 908; H. 43, 46 C. 1904 [2] 1660).

_ 22 IV _

1) Diisatinindophtenin (B. 37, 3351 C. 1904 [2] 1058). $C_{22}H_{10}O_2N_2S_2$ 1) 2,4,6,8-Tetrabrom-1,5-Di[Diacetylamido]-9,10-Anthrachinon. $\mathbf{C}_{22}\mathbf{H}_{14}\mathbf{O}_{6}\mathbf{N}_{2}\mathbf{Br}_{4}$ Zers. oberh. 220° (B. 37, 4184 C. 1904 [2] 1742).

$\mathbf{C}_{22}\mathbf{H}_{14}\mathbf{O}_{7}\mathbf{N}_{4}\mathbf{S}_{2}$	1) Disazoverbindung (aus 4,4'-Diamidobiphenyl-2,2'-Disulfonsäure). Ba (J. pr. [2] 66, 573 C. 1903 [1] 520).
$\mathbf{C}_{22}\mathbf{H}_{15}\mathbf{O}_2\mathbf{N}_2\mathbf{Cl}$	2) 4-Keto-3-Benzoyl-2-[4-Chlorbenzyl]-3,4-Dihydro-1,3-Benz-
$\mathbf{C}_{22}\mathbf{H}_{16}\mathbf{O}_{2}\mathbf{N}_{2}\mathbf{S}$	diazin. Sm. 210° (<i>J. pr.</i> [2] 69, 22 <i>C.</i> 1904 [1] 640). 1) 4-Keto-2-Phenylimido-3-Phenyl-5-[2-Oxybenzyliden]tetra-
$\mathbf{C}_{22}\mathbf{H}_{16}\mathbf{O}_{3}\mathbf{NCl}$	hydrothiazol. Sm. 230—235° (M. 24, 516 C. 1903 [2] 837). 1) 6-Chlor-3-Aethylamidofluoran. Sm. 186° (D.R.P. 85885).
	*III, 574. 2) Chlordimethylamidofluoran. Sm. 218° (D.R.P. 139727 C. 1903
	[1] 796).
$\mathbf{C}_{22}\mathbf{H}_{16}\mathbf{O}_{6}\mathbf{N}_{2}\mathbf{Br}_{2}$	3) Chloräthylamidofluoran (D.R.P. 139727 C. 1903 [1] 796). 1) 2,6-Dibrom-1,5-Di[Diacetylamido]-9,10-Anthrachinon. Zers.
C ₂₂ H ₁₈ O ₂ NJ	oberh. 240° (B. 37, 4183 C. 1904 [2] 1741). 1) Jodmethylat d. 5-Phenylakridin-5 ² -Carbonsäure. Sm. 226—227°
	(B. 37, 1008 C. 1904 [1] 1276).
$\mathrm{C}_{22}\mathrm{H}_{19}\mathrm{O}_{2}\mathrm{NBr}_{2}$	1) N-Benzoylderivat d. Phenyl-3, 6-Dibrom-4-Oxy-2, 5-Dimethylbenzylamin. Sm. 163—165° (B. 37, 3940 C. 1904 [2] 1597).
	2) Benzoat d. Phenyl-3,6-Dibrom-4-Oxy-2,5-Dimethylbenzyl- amin. Sm. 174—175° (B. 37, 3939 C. 1904 [2] 1597).
$\mathbf{C}_{22}\mathbf{H_{19}O_{2}NS}$	2) 3,4-Methylenäther d. 4-[3,4-Dioxyberarlidan amida-3,4'-Dimethyldiphenylsulfid. HCl (J. pr. [2] 6S, 23-10. 1903 [2] 995).
$\mathbf{C}_{22}\mathbf{H}_{19}\mathbf{O}_{2}\mathbf{N}_{2}\mathbf{Br}_{3}$	*1) 2,5,6-Tribrom-4-Oxy-1-Phenylamidomethyl-3-A cetylphenyl-
C II O II C	amidomethylbenzol. Sm. 209° (A. 332, 180 C. 1904 [2] 209; B. 37, 3907 C. 1904 [2] 1592).
$C_{22}H_{20}O_2N_2S$	3) 4-[4-Methylphenyl]merkapto-2-Methylphenylamid d. Phenyloxaminsaure. Sm. 238° (J. pr. [2] 68, 284 C. 1903 [2] 995).
$\mathbf{C}_{22}\mathbf{H}_{20}\mathbf{N}_{8}\mathbf{JS}$	1) Methylather d. 5-Jod-3-Merkapto-1, 5-Diphenyl-4-Benzyl-4, 5-Dihydro-1, 2, 4-Triazol. Sm. 176° (J. pr. [2] 67, 228 C. 1903 [1]
	1261). 2) Methyläther d. 5-Jod-3-Merkapto-4, 5-Diphenyl-1-'4-Methyl-
	phenyl]-4,5-Dihydro-1,2,4-Triazol. Sm. 2.6 [J. pr. [2] 67, 261 C. 1903 [1] 1266).
	3) Aethyläther d. 5-Jod-3-Merkapto-1,4,5-Triphenyl-4,5-Dihydro-1,2,4-Triazol. Sm. 304° u. Zers. (J. pr. [2] 67, 243 C. 1903 [1] 1263).
$\mathbf{C}_{22}\mathbf{H}_{21}\mathbf{ON}_{3}\mathbf{S}$	2) 3-Methyläther d. 3-Merkapto-5-Oxy-1,5-Dirhand-4-Benzal- 4,5-Dihydro-1,2,4-Triazol. Sm. 135° (J. pr. 67. 2. 1903)
	[2] 1202).
	3) 3-Methyläther d. 8-Merkapto-5-Oxy-4, 5-Diphenyl-1-[4-Methylphenyl]-4, 5-Dihydro-1, 2, 4-Triazol. Sm. 136° (J. pr. [2] 67, 262 C. 1903 [1] 1266).
	4) 3-Aethyläther d. 3-Merkanto-5-Ovy-1 4 5 Whinhamel 4 5 Di
$\mathbf{C}_{22}\mathbf{H}_{21}\mathbf{O}_{2}\mathbf{NS}$	1.5 m $1.05 m$ 1.05
	1) 3-Methyläther d. 4-[3,4-Dioxybenzyliden]amido-3,4'-Dimethyl-diphenylsulfid. HCl (J. pr. [2] 68, 288 C. 1903 [2] 995).
$\mathbf{C}_{22}\mathbf{H}_{22}\mathbf{O}_{3}\mathbf{N}_{4}\mathbf{S}_{2}$	säure. Sm. 134—135° (L nr. [2] 70, 384 C 1004 [3] 1730.
$\mathbf{C}_{22}\mathbf{H}_{22}\mathbf{O_4N_2Br_4}$	1) Diacetat d. 1,4-Di[3,5-Dibrom-2-Oxybenzyl]hexahydro-1,4-Diazin. Sm. 199—2010 (A. 332, 223 C. 1904 [2] 203).
$\mathbf{C}_{22}\mathbf{H}_{24}\mathbf{O}_{10}\mathbf{N}_{2}\mathbf{S}_{2}$	To The Tail Dia Colly I a million and the collection of the collec
$C_{22}H_{24}O_{12}N_2S_2$	säure. Na, (J. pr. [2] 66, 570 C. 1903 [1] 519). 1) Benzol-1, 3-Disulfonsäure + 2 Molec. 3-Amido-4-Oxybenzol- 1-Carbonsäuremethylester. Sm. 142° u. Zers. (D. R. P. 150 070 C. 1904 [1] 975).
$\mathbf{C}_{22}\mathbf{H}_{25}\mathbf{O_8N_2J}$	
C ₂₂ H ₂₆ O ₄ NJ	2) Jodmethylat d. Anhydrocotarninbenzylcyanid. Sm. 225—2270 (B. 37, 3337 C. 1904 [2] 1156).
	bis 226° (B. 37, 2748 C. 1904 [2] 546)
$\mathbf{C}_{22}\mathbf{H}_{26}\mathbf{N}_3\mathbf{SP}$	phorsaure. Sm. 158° (4. 326. 25° G. 1002 (4. 326. 25° G. 1002 (4. 326. 32° G. 1002)
$\mathrm{C}_{22}\mathrm{H}_{28}\mathrm{O_8NJ}$	2) Jodmethylat d. Methylthebenindimethyläther. Sm. 247° (B. 37, 2787 C. 1904 [2] 716).
$\mathbf{C}_{22}\mathbf{H}_{28}\mathbf{O_4NJ}$	6) Jodmethylat d. Phenanthrana N. Watherst
	Sm. 215° (B. 37, 1941 C. 1904 [2] 130).

 $C_{22}H_{30}O_{8}N_{2}S$ 1) 4-Amido-4'-Sulfomethylamidodi[1-Naphtyl]methan. bis 195° (D.R.P. 148760 C. 1904 [1] 555). 1) Diisobutylmonamid-Di [4-Methylphenylamid] d. Phosphorsäure. $C_{22}H_{34}ON_8P$ Sm. 180° (A. 326, 186 C. 1903 [1] 820). $C_{22}H_{34}N_8SP$ 1) Diamylmonamid-Di-[Phenylamid] d. Thiophosphorsäure. Sm. 141° (A. 326, 213 C. 1903 [1] 822).

1) Phenyläther d. Di[Diisobutylamido] oxyphosphin. Fl. (A. 326, C₂₂H₄₁ON₂P 168 *O.* **1903** [1] 762). _ 22 V 1) 8-Amido-2-[4-Nitrophenyl]azo-7-[2,4-Dichlorphenyl]azo- $C_{22}H_{14}O_6N_6Cl_2S$ 1-Oxynaphtalin-4-Sulfonsäure (C. 1903 [1] 676). 1) Phenylhydrazid d. α -[4-Chlorphenylthiosulfon]- β -Phenyl- $\mathbf{C}_{22}\mathbf{H}_{21}\mathbf{O}_{3}\mathbf{N}_{4}\mathbf{ClS}_{2}$ hydrazonbuttersäure. Sm. 160-161° u. Zers. (J. pr. [2] 70, 388 C. 1904 [2] 1720). 1) Phenylhydrazid d. α -[4-Bromphenylthiosulfon]- β -Phenylhydrazonbuttersäure. Sm. 168—169° u. Zers. (J. pr. [2] 70, $\mathbf{C}_{22}\mathbf{H}_{21}\mathbf{O_8N_4}\mathbf{BrS}_2$ 389 C. 1904 [2] 1720). $\mathbf{C}_{22}\mathbf{H}_{21}\mathbf{O}_{3}\mathbf{N}_{4}\mathbf{J}\mathbf{S}_{2}$ 1) Phenylhydrazid d. α -[4-Jodphenylthiosulfon]- β -Phenylhydrazonbuttersäure. Sm. 167-168° u. Zers. (J. pr. [2] 70, 390 C. 1904 [2] 1721). 1) Jodmethylat d. isom. Dibromstrychnin. Sm. 243° (Bl. [3] 31, $\mathbf{C}_{22}\mathbf{H}_{28}\mathbf{O}_{2}\mathbf{N}_{2}\mathbf{Br}_{2}\mathbf{J}$ 389 C. 1904 [1] 1280).

 $\mathbf{C}_{22}\mathbf{H}_{28}\mathbf{O}_{2}\mathbf{N}\mathbf{Br}_{2}\mathbf{J}$

 $C_{22}H_{82}O_{2}NSP$

 $C_{22}H_{24}O_2N_2BrJ$ $C_{22}H_{25}O_5NBrJ$

(A. 297, 216). — *III, 670.

1) Acetat d. 3,6-Dibrom-4'-Diäthylamido-4-Oxy-2,5-Dimethyldiphenylmethanjodmethylat. Sm. 191-1920 (A. 334, 317) C. 1904 [2] 987).

Jodmethylat d. isom. Bromstrychnin. Sm. 298° (Bl. [3] 31, 387 C. 1904 [1] 1279).

1) Jodnethylat d. Diacetylbrommorphin $+ 1\frac{1}{2}H_2O$. Sm. 200°

1) Diamylmonamid d. Thiophosphorsäurediphenylester. Sm. 640 (A. 326, 213 C. 1903 [1] 822).

C₂₃-Gruppe.

4) Diphenyl-I-Naphtylmethan. Sm. 150° (149°) (B. 13, 358; B. 37, 617
C. 1904 [1] 811; B. 37, 2756 C. 1904 [2] 707). — I, 299.
C. 89,0 — H 11,0 — M. G. 310. C28H18 C28H84 1) Kohlenwasserstoff (aus Cholesterylchlorid). Sd. 270-286 og (M. 24, 663 C. 1903 [2] 1236).

_ 23 II _

C 74,6 — H 3,8 — O 21,6 — M. G. 370. $C_{28}H_{14}O_5$

1) Lakton d. 4-Oxy-7-Benzoxyl-2-Phenyl-1,4-Benzpyran-4-Carbon-säure. Sm. 192° u. Zers. (B. 36, 1950 C. 1903 [2] 296).

 9) β-[3,4-Dibenzoxylphenyl]akrylsäure. Sm. 204-206° (B. 36, 2935
 C. 1903 [2] 888). $C_{28}H_{16}O_{6}$

2) α -Chlordiphenyl-1-Naphtylmethan. Sm. 169° (B. 37, 1637 C. 1904 C28H17Cl [1] 1649).

4) α-Oxydiphenyl-1-Naphtylmethan. Sm. 135° (Am. 29, 602 C. 1903 C, H, O [2] 197; B. 37, 627 C. 1904 [1] 810; B. 37, 1638 C. 1904 [1] 1649; B. 37, 2755 C: 1904 [2] 707).

7) 4^{3.5}-Dimethyläther d. chinoïden 7-Oxy-4-[3,5-Dioxyphenyl]-2-Phenyl-1,4-Benzpyran. (HCl + 1½, H₂O, (2 HCl, PtCl₄), H₂SO₄ + 1½, H₂O, Pikrat (B. 36, 2296 C. 1903 [2] 577).

3) 4^{3.5}-Dimethyläther d. 5-Oxy-2-Phenyl-4-[3,5-Dioxyphenyl]-1,7-Benzpyron + H₂O. Sm. 215—220°. Pikrat (B. 36, 3609 C. 1903 [2] C28H18O4

 $\mathbf{C}_{98}\mathbf{H}_{18}\mathbf{O}_{5}$

4) 4.5.5 Dimethyläther d. 8-Oxy-2-Phenyl-4-[3,5-Dioxyphenyl]-1,7-Benzpyron. Sm. 225-230°. HCl + H₂O, Pikrat (B. 36, 3607 C. 1903 [2] 1381).

$\mathbf{C}_{23}\mathbf{H}_{18}\mathbf{O}_{10}$	*1) Tetraacetat d. 3,7-Dioxy-2-[3,4-Dioxyphenyl]-1,4-Benzpyron (T. d. Fisetin). Sm. 200—201° (B. 37, 791 C. 1904 [1] 1158). *7) Tetraacetat d. 3,5,7-Trioxy-2-[4-Oxyphenyl]-1,4-Benzpyron
	(T. d. Kämpferol). Sm. 181° (B. 37, 2099 C. 1904 [2] 121). *8) Tetraacetat d. Robigenin. Sm. 182—183° (Ar. 242, 223 C. 1904 [1]
	1651). 9) Tetraacetat d. 3,6-Dioxy-2-[3,4-Dioxyphenyl]-1,4-Benzpyron. Sm. 197—198° (B. 37, 781 C. 1904 [1] 1156).
	10) Tetraacetat d. 3,7,8-Trioxy-2-[3-Oxyphenyl]-1,4-Benzpyron. Sm. 166—167° (B. 37, 2633 C. 1904 [2] 540).
$\mathbf{C}_{23}\mathbf{H}_{18}\mathbf{N}_4$	4) α -Phenylazo- α -[2-Naphtyl]hydrazon- α -Phenylmethan. Sm. 150° (C. 1903 [2] 427).
	5) α -Phenylhydrazon - α - [2-Naphtyl] azo - α - Phenylmethan. Sm. 172° (C. 1903 [2] 427).
$egin{array}{c} \mathbf{C}_{23}\mathbf{H}_{19}\mathbf{N} \\ \mathbf{C}_{28}\mathbf{H}_{20}\mathbf{O}_{4} \end{array}$	 3) γ-Phenylimido-αε-Diphenyl-αδ-Pentadiën. Sm. 127° (C. 1903 [1] 399). 6) Dibenzoat d. 4,6-Dioxy-l,2,3-Trimethylbenzol. Sm. 191° (A. 329, 309 C. 1904 [1] 794).
$\mathbf{C_{28}H_{20}O_{5}}$	5) 435-Dimethylather d. 4,7-Dioxy-4-[3,5-Dioxyphenyl]-2-Phenyl-1,4-Benzpyran. Sm. 1100 (B. 36, 2298 C. 1903 [2] 577).
$C_{23}H_{20}O_8$	 5) Aloresinotannol (Ar. 241, 356 C. 1903 [2] 726). 6) Diacetat d. Pentaoxybrasandimethyläther. Sm. 254—255° (B. 36, 2201 C. 1903 [2] 381).
$\mathbf{C}_{23}\mathbf{H}_{20}\mathbf{O}_{9}$	C 62,7 — H 4,5 — Ó 32,7 — M. G. 440. 1) Tetraacetat d. Buteïn. Sm. 129—131° (C. 1904 [2] 451).
$\mathbf{C}_{23}\mathbf{H}_{20}\mathbf{O}_{11}$	2) Pentamethylester d. Diphenylketon-2, 4, 6, 3', 5'-Pentacarbonsäure. Sm. 146—147° (B. 33, 343). — *II, 1231.
$\mathbf{C}_{28}\mathbf{H}_{20}\mathbf{N}_2$	*6) γ -Phenylhydrazon- $\alpha\varepsilon$ -Diphenyl- $\alpha\delta$ -Pentadiën. Sm. 147° (C. 1903 [1] 399).
	8) γ -Phenylhydrazon- $\alpha \varepsilon$ -Diphenyl- $\alpha \delta$ -Pentadiën. Sm. 152—153° (Soc. 85, 1179 C. 1904 [2] 1216).
$\mathbf{C_{28}H_{20}N_4}$	3) 4,4'-Di[Methylcyanamido]triphenylmethan. Sm. 163° (B. 37, 637 C. 1904 [1] 950).
$\mathbf{C}_{23}\mathbf{H}_{21}\mathbf{N}$	C 88,7 — H 6,8 — N 4,5 — M. G. 311. 1) 2,6-Di[β-4-Methylphenyläthenyl]pyridin. Sm. 202°. HCl + H ₂ O, (HCl, HgCl ₂), (2HCl, PtCl ₂), (HCl, AuCl ₂) HBr + HO Pikrot (B 36)
	1003 C. 1903 [2] 46). 2) 1, 3, 7, 9 - Tetramethyl - 5 - Phenylakridin, Sm. 152° (B. 36, 102)
	 C. 1903 [1] 1268). Nitril d. Tri[4-Methylphenyl]essigsäure. Sm. 1929 (B. 37, 2157)
$\mathbf{C}_{23}\mathbf{H}_{21}\mathbf{N}_{3}$	C. 1904 [2] 1048). C 81,4 — H 6,2 — N 12,4 — M. G. 339.
•	1) 1,3,5-Tri[4-Methylphenyl]-1,2,4-Triazol. Sm. 134° (<i>J. pr.</i> [2] 67, 489 <i>C.</i> 1903 [2] 250). 2) 1-[2-Methylphenyl]-3,5-Di[4-Methylphenyl]-1,2,4-Triazol. Sm. 137° (1000) 1000 1000 1000 1000 1000 1000 10
$C_{98}H_{99}O$	(3. pr. 14 67, 485 C. 1903 [2] 25(1).
$\mathbf{C}_{28}^{23}\mathbf{H}_{22}^{22}\mathbf{O}_{8}$	*5) ααδ-Triphenylpentan-αδ-Oxyd. Sm. 74° (C. 1903 [1] 225). 4) Aethylester d. 4-Keto-6-Phenyl-2-[β-Phenyläthenyl]-1, 2, 3, 4-Tetra-
$\mathbf{C_{28}H_{22}O_{4}}$	hydrobenzol-3-Carbonsäure. Sm. 142° (C. 1903 [2] 944). 2) 436-Dimethyläther d. 7-Oxy-4-[3,5-Dioxyphenyl]-2-Phenyl-2,3-
	3) Methylester d. 3, 3'-Dioxytriphenylessigdimethyläthersäure. Sm. 168° (B. 37, 4037 C. 1904 [2] 1600).
0.77.0	benzol-3-Carbonsäure. Sm. 1640 (R. 36, 2135 (J. 1003 191 207)
$egin{array}{c} \mathbf{C_{23}H_{22}O_7} \ \mathbf{C_{23}H_{22}O_{10}} \end{array}$	2) Diacetal u. Verb. G. H. O. Sm. 1680. (M 92. 914 / 1009 [0] 90)
$\mathbf{C}_{28}^{23}\mathbf{H}_{22}\mathbf{N}_{2}^{10}$	 Zeorsäure. Sm. 235—236° (A. 327, 345 C. 1904 [2] 509). γ-Phenylhydrazon-αε-Diphenyl-α-Penten. Sm. 116° (A. 330, 234 C. 1904 [1] 945).
$\mathbf{C_{28}H_{22}N_4}$	3) 1,3-Di[Benzylidenamido]-2-Phenyltetrahydroimidazol. Sm. 1280 (J. pr. [2] 67, 143 C. 1903 [1] 865).
	4) 3-[2,4,5-Trimethylphenyllamido 1,5 Diphenyl 1,9 4 Missal
$\mathbf{C_{23}H_{24}O_{3}}$	 Sm. 121—123° (Am. 32, 365 C. 1904 [2] 1507). Dimethyläther d. 3-Keto-2,4-Di[4-Oxybenzyliden]-1-Methylhexahydrobenzol. Sm. 110° (C. r. 136, 1225 C. 1903 [2] 116).

- $C_{23}H_{24}O_5$ C 72,6 — H 6,3 — O 21,1 — M. G. 380. 1) Aethylester d. $\beta\zeta$ -Diketo- ε -Benzoyl- δ -Phenylheptan- γ -Carbonsäure. Sm. 183° (B. 36, 2135 C. 1903 [2] 366).
- C23H24O7 2) Diacetat d. Anhydrolariciresinol. Sm. 140° (M. 23, 1027 C. 1903 [1] 288).
- $C_{23}H_{24}N_{2}$ 4) α -[2,4-Dimethylphenyl] imido-4-Dimethylamidodiphenylmethan.
 - Sm. 121° (D.R.P. 41751). *III, 150. 5) 3-Dimethylamido-9-[4-Dimethylamidophenyl]fluoren. Sm. 149° (C. r. 137, 414 C. 1903 [2] 761).
- C28H26O2 2) α -Oxydiphenylmethylcampher. Sm. 122,5° (B. 35, 3912 C. 1903 [1] 29; B. 36, 2631 C. 1903 [2] 625).
- $C_{28}H_{28}O_7$ *1) Tetraäthyläther d. Quercetin. Sm. 121° (Ar. 242, 237 C. 1904 [1]
 - 2) Evernurol. Sm. 196° (J. pr. [2] 68, 22 C. 1903 [2] 511).
 - 3) Tetraäthyläther d. Morin. Sm. 126-128° (Soc. 85, 61 C. 1904 [1] 381, 729).
- C28 H26 N2 *2) 4, 4'- Di[Dimethylamido]triphenylmethan (B. 37, 640 C. 1904 [1] 950).
 - 5) α -Butyl- $\alpha\alpha$ -Di[2-Methyl-3-Indolyl]methan. Sm. 157° (B. 37, 323) C. 1904 [1] 668).
- C28H27N8 *1) 2^{1} -Amido 4^{2} , 4^{3} -Di[Dimethylamido] triphenylmethan. Sm. 131 bis 133° (B. 36, 2785 C. 1903 [2] 881).
- 2) Phloraspin. Sm. 211° (A. 329, 338 C. 1904 [1] 801). C28H28O8 C 83,1 - H.8,4 - N.8,4 - M.G. 332.
- $C_{28}H_{28}N_{2}$ 1) $e - [2, 4, 5 - Trimethylphenyl] imido - <math>\alpha - [2, 4, 5 - Trimethylphenyl]$ amido - αγ - Pentadiën. Sm. 93° u. Zers. HCl (A. 333, 325 C. 1904 [2] 1149).
- *1) Tetraacetylglyko-o-Oxyphenyläthylcarbinol. Sm. 156° (B. 36, 2581 C23H30O11 C. 1903 [2] 621).
 - *2) isom. Tetraacetylglyko-o-Oxyphenyläthylcarbinol. Sm. 128° (B. 36, 2582 C. 1903 [2] 621).
- $C_{23}H_{82}O_8$ C 77,5 — H 9,0 — O 13,5 — M. G. 356.
- 1) Acetat d. Cannabinol. Fl. (C. 1903 [2] 199). C 63,0 - H 7,8 - O 29,2 - M. G. 438.
- $C_{23}H_{34}O_{8}$ 1) Trimethylester d. Ciliansäure. Sm. 123-124° (M. 24, 62 C. 1903 [1] 766).
- $\mathbf{C_{23}H_{86}O_{2}}$ 3) Acetat d. Laktukol (Laktukon). Sm. 184° (C. 1904 [1] 1162; M. 25, 786 C. 1904 [2] 1137).
- C 76,7 H 10,0 O 13,3 M. G. 360. $C_{23}H_{88}O_{8}$ 1) α -Oxy- $\alpha \alpha$ -Dicamphorylpropan. Sm. 158—160° (B. 36, 2638 C. 1903)
- [2] 626). C23H36O4
 - C 73,4 H 9,6 O 17,0 M. G. 376. 1) α -Masticinsäure. Sm. 90—91° (Ar. 242, 105 C. 1904 [1] 1010). 2) β -Masticinsäure. Sm. 89,5—90,5° (Ar. 242, 106 C. 1904 [1] 1010). 3) Masticolsäure. Sm. 201°. Ag (Ar. 242, 107 C. 1904 [1] 1010).
- 2) Acetylcyklogallipharsäure. Sm. 71°. Ag (Ar. 242, 262 C. 1904 C₂₈H₃₈O₄ [1] 1653).
- C 58,2 H 8,0 O 33,8 M. G. 474. C28H88O10 1) Sapotoxin. Sm. 172° (C. 1904 [2] 119).
- C 75,8 H 11,0 O 13,2 M. G. 364. $C_{23}H_{40}O_{8}$
 - 1) Aethylester d. Cyklogallipharsäure. Sm. 37° (Ar. 242, 264 C. 1904 [1] 1654).
- 2) Aethylester d. Propionylricinolsäure. Sd. 265% (B. 36, 787 C. 1903 $C_{23}H_{42}O_4$ [1] 824).
 - 3) Propylester d. Acetylricinolsäure. Sd. 260°₁₈ (B. 36, 786 C. 1903
- 3) Isoamylester d. Oelsäure. Fl. (C. r. 138, 378 C. 1904 [1] 787). $C_{28}H_{44}O_{2}$ *2) Isoamylester d. Stearinsäure. Sm. 21° (C. r. 138, 379 C. 1904 [1] $C_{23}H_{46}O_{2}$ 787).
- *1) Amidoguanidinverbindung d. μ -Keto κ Methyl κ Heneikosen. $C_{23}H_{46}N_4$ Pikrat (B. 36, 2557 C. 1903 [2] 655).

C28H,1ON

23 III

1) Trimethyläther d. Tetrachlordioxyfluorescein. Sm. 245° (B. 36. $C_{99}H_{14}O_7Cl_4$ 1078 C. 1903 [1] 1182). C 68.8 - H 3.7 - O 23.9 - N 3.5 - M. G. 401.C23 H15 O6 N 1) Lakton d. α -Oxy- γ -Keto- β -Benzoyl- α -Phenyl- β -[2-Nitrophenyl]propan-y-Carbonsäure. Sm. 162° (A. 333, 236 C. 1904 [2] 1390). C 60,0 — H 3,5 — O 24,3 — N 12,2 — M. G. 460. C23H16O7N4 1) 1-Benzoylamidonaphtalin + 1,3,5-Trinitrobenzol. Sm. 131-1320 (Soc. 83, 1340 C. 1904 [1] 99). 1) Trimethyläther d. Dichlordioxyfluorescein (B. 36, 1081 C. 1903 $C_{23}H_{16}O_7Cl_2$ [1] 1182) $C_{23}H_{17}O_2N$ 9) Benzoat d. 7-Oxy-2-Methyl-4-Phenylchinolin. Sm. 1440 (B. 36, 2456 C. 1903 [2] 670). C₂₃H₁₇O₂N₃ 11) Benzoat d. 4-Amido-1-[4-Oxyphenylazo]naphtalin. Sm. 183—1840 (B. 36, 4148 C. 1904 [1] 186). 4) Di[1-Naphtylamid] d. Oximidomalonsäure. Sm. 184°. K (Soc. 83, C23 H17 O3 N3 40 C. 1903 [1] 73, 442).
5) Di[2-Naphtylamid] d. Oximidomalonsäure. Sm. 221° (Soc. 83, 41) C. 1903 [1] 73, 442). $C_{28}H_{18}O_2N_2$ 13) 6-Keto-5-Benzoyl-2,4-Diphenyl-3,4,5,6-Tetrahydro-1,3-Diazin. Sm. 241—242° (Soc. 83, 722 C. 1903 [2] 54). 14) Di[1-Naphtylamid] d. Malonsäure. Sm. 225° (Soc. 83, 40 C. 1903 [1] 442). 15) Di[2-Naphtylamid] d. Malonsäure. Sm. 235° (Soc. 83, 41 C. 1903 $[1]^{-}442).$ 5) 4-Acetylamido-1-[4-Methylphenyl]amido-9,10-Anthrachinon. Sm. 193° (D.R.P. 148767 C. 1904 [1] 557).
6) Benzoat d. 4-Oxy-3-Keto-1-Methyl-2,5-Diphenyl-2,3-Dihydropyrazol. Sm. 190° (B. 36, 1138 C. 1903 [1] 1254). $C_{23}H_{18}O_8N_2$ 6) 5-Phenylamido-4-Benzoyl-3-Methyl-1-Phenylpyrazol. Sm. 1710 $C_{28}H_{19}ON_{8}$ (B. 36, 525 C. 1903 [1] 641). 4) Oxim d. chinoïden 7-Oxy-4-[3,5-Dioxyphenyl]-2-Phenyl-1,4-Benz-C23H19O4N pyran-4^{3,5}-Dimethyläther. Sm. 60-65⁶ (B. 36, 2300 C. 1903 [2] 577). 5) Methyläther d. Dimethylrhodol. HCl (D. R. P. 122289). — *III, 578. C25H19O8N *1) 3-Nitrobenzylidendivanillin (B. 36, 3977 Anm. C. 1904 [1] 373). 1) 5-Chlor-4-[α-Phenylhydrazonbenzyl]-3-Methyl-1-Phenylpyrazol. $C_{23}H_{19}N_4C1$ Sm. 176° (B. 36, 526 C. 1903 [1] 641). 7) 3,7-Dimethyl-5-[3-Acetylamidophenyl]akridin. Sm. 280° (B. 36, $C_{28}H_{20}ON_{2}$ 1024 C. 1903 [1] 1268). 8) Verbindung (aus 2-Methylindol u. Furfurol). Sm. 220° (B. 36, 4327 C. **1904** [1] 462). C28H20ON4 C 75,0 — H 5,4 — O 4,3 — N 15,2 — M. G. 368. 1) α -Oxy-4,4'-Di|Methylcyanamido]triphenylmethan. Sm. 168° (B. 37, 641 C. 1904 [1] 951). 5-Keto-4-[4-Dimethylamidophenyl]imido-1,3-Diphenyl-4,5-Di-hydropyrazol. Sm. 218,5° (B. 36, 1133 C. 1903 [1] 1253). $C_{23}H_{20}O_2N_2$ 11) Phenylamidoformiat d. syn- α -Oximido- $\alpha\gamma$ -Diphenyl- β -Buten. Sm. 149—150° (M. 25, 437 C. 1904 [2] 336). $C_{28}H_{20}O_8N_2$ 2) Benzoat d. 4-Oxy-3-Acetylphenylhydrazonmethyl-1-Methylbenzol. Sm. 140° (B. 35, 4107 C. 1903 [1] 150). 2) Dimethyläther d. β -Phenylazo- $\alpha\gamma$ -Diketo- γ -Phenyl- α -[3,5-Dioxy- $C_{23}H_{20}O_4N_9$ phenyl]propan. Sm. 108° (B. 35, 3904 C. 1903 [1] 27).
4) 2,5-Diacetat d. 3,6-Dimerkapto-2,5-Dioxy-1-Methylbenzol-3,6- $C_{23}H_{20}O_4S_2$ Diphenyläther. Sm. 121-122° (A. 336, 161 C. 1904 [2] 1300). 1) 1-[4-Chlor-2-Methylphenyl]-3,5-Di[4-Methylphenyl]-1,2,4-Triazol. Sm. 170° (J. pr. [2] 67, 502 C. 1903 [2] 251). $\mathbf{C}_{23}\mathbf{H}_{20}\mathbf{N}_{3}\mathbf{C}\mathbf{l}$

3) d- γ -[β -Oxy- $\alpha\beta$ -Diphenyläthyl]imido- α -Phenylpropen. Sm. 189—190°

4) isom. $d-\gamma - [\beta - Oxy - \alpha\beta - Diphenyläthyl]$ imido $-\alpha - Phenylpropen$. Sm. 131° (B. 36, 2343 C. 1903 [2] 410). 5) $1-\gamma-[\beta-0xy-\alpha\beta-Diphenyläthyl]$ imido- α -Phenylpropen. Sm. 189—190°

u. Zers. (B. 36, 2343 C. 1903 [2] 410).

u. Zers. (B. 36, 2343 C. 1903 [2] 410).

 $C_{28}H_{21}ON$ 6) isom. $1-\gamma-[\beta-Oxy-\alpha\beta-Diphenyläthyl]$ imido- α -Phenylpropen. 131° (B. 36, 2343 C. 1903 [2] 410). 7) $r-\gamma-[\beta-Oxy-\alpha\beta-Diphenyläthyl]imido-\alpha-Phenylpropen. Sm. 186° (B. 36,$ 2342 °C. 1903 [2] 410). 8) 4-Keto-1, 2, 6-Triphenylhexahydropyridin. Sm. 220-2210 (Bl. [3] **31**, 985 *C*. **1904** [2] 1151). 10) ε -Oximido- α -Keto- $\alpha \gamma \varepsilon$ -Trimethylpentan. Sm. 144° (A. 302, 242). $C_{23}H_{21}O_{2}N$ · *III, 237. 1) Dimethyläther d. γ -Chlor- α -Keto- $\alpha\beta$ -Diphenyl- γ -[3,4-Dioxyphenyl]-propen. Sm. 164° (B. 35, 3972 C. 1903 [1] 31). $C_{28}H_{21}O_8C1$ C28H21O4N 3) Trimethyläther d. Phenolphtaleïnoxim. Sm. 145-146° (B. 36, 2964 C. 1903 [2] 1007). C 67,8 — H 5,2 0.23.6 - N.3.4 - M.G.407. $C_{28}H_{21}O_6N$ 1) Diacetat d. 2-Keto-5, 6-Dioxy-1-[4-Dimethylamidocinnamyliden]-1,2-Dihydrobenzfuran. Sm. 206° (B. 37, 827 C. 1904 [1] 1152). $C_{28}H_{21}NBr_4$ 1) 2, 6-Di[$\alpha\beta$ -Dibrom- β -4-Methylphenyläthyl]pyridin. Sm. 182° (B. 36, 1686 C. 1903 [2] 47). 1) α-Rhodantri [4-Methylphenyl]methan. Sm. 147-148° (B. 37, 3157 C28H2, NS C. 1904 [2] 1048). 2) 4-Cinnamylidenamido-3,4'-Dimethyldiphenylsulfid. HCl (J. pr. [2] **68**, 288 *C*. **1903** [2] 995). C, H, ON, 7) 4-Oximido-1, 2, 6-Triphenylhexahydropyridin. Sm. 220-221 ° (Bl. [3] **31**, 987 *O*. **1904** [2] 1151). 8) Monophenylhydrazon d. Dimethylphenyl - m - Biscyklohexenon. Sm. 199° (B. 36, 2149 C. 1903 [2] 369.

9) N-Butyl-o-Methylchinophtalin. Sm. 178° (B. 36, 3919 C. 1904 [1] 98). 1) Dicinnamylidencyklopentanondihydrochlorid (B. 36, 1478 C. 1903 $C_{28}H_{22}OCl_2$ [1] 1349). $\mathbf{C}_{28}\mathbf{H}_{22}\mathbf{OBr}_{2}$ 1) Dihydrobromid d. 2-Keto-1, 3-Dicinnamyliden-R-Pentamethylen (B. 36, 3545 C. 1903 [2] 1369). 1) Aethyläther d. γ -Keto- α -Merkapto- $\alpha\beta\gamma$ -Triphenylpropan. Sm. 172° CasHasOS (B. 37, 505 C. 1904 [1] 882). 2860 C. 1904 [2] 776). 7) γ-Phenylhydroxylureïdo-α-Keto-αγ-Diphenylbutan (Phenylharnstoff aus Dypnonhydroxylamin). Sm. 1276 (A. 330, 230 C. 1904 [1] 944). 2) α -Keto- γ -Benzylsulfon- $\alpha\gamma$ -Diphenyl- β -Methylpropan. Sm. 152 bis $C_{23}H_{22}O_3S$ 153° (B. 37, 507 C. 1904 [1] 883). 3) γ -Keto- α -Aethylsulfon- $\alpha\beta\gamma$ -Triphenylpropan. Sm. 206—207° (B. 37, 505 C. 1904 [1] 882). 3) Phenylbenzylamid d. d- β -Phenylisobuttersäure. Sm. 69—70° (Soc. 85, $C_{28}H_{28}ON$ 447 C. 1904 [1] 1445). 4) Phenylbenzylamid d. dl-β-Phenylisobuttersäure. Sm. 69-70° (Soc. 85, 446 C. 1904 [1] 1445). 4) Aethylester d. α-[Phenyl-2-Oxy-1-Naphtylmethyl]imidopropion- $C_{28}H_{28}O_8N$ säure. Sm. 165° (G. 33 [1] 34 C. 1903 [1] 926). 5) Aethylester d. 5-Acetyl-2-Methyl-4,6-Diphenyl-1,4-Dihydropyridin-3-Carbonsäure. Sm. 174° (B. 36, 2188 C. 1903 [2] 569). C 64,9 — H 5,4 — O 26,4 — N 3,3 — M. G. 425.

1) Triacetylbenzoylepinephrin (*H.* 28, 333). — *III, 667. C28H23O7N 4) Jodmethylat d. cis-1-Methyl-2,4,5-Triphenyl-4,5-Dihydroimid- $C_{28}H_{23}N_2J$ azol. Sm. 247° (B. 13, 1420; 18, 3079; Soc. 77, 629). — *III, 18. 2) 4-Dimethylamido-4'-Methylbenzylamidodiphenylketon. Sm. 136° C₉₈H₉₄ON₂ (D.R. P. 72808). — *III, 150.

3) 3 - Dimethylamido - 9 - Oxy - 9 - [4 - Dimethylamidophenyl]fluoren. Chlorid, Nitrat (C. r. 137, 414 C. 1903 [2] 761).

5) Protocatechualdehydblau + H₂O. 3HCl (B. 36, 2920 C. 1903 [2] $C_{28}H_{24}O_2N_2$ 1066). 2) Strychninbetain. HCl, (2HCl, PtCl₄ + 3H₂O) (A. 326, 329 C. 1903 $\mathbf{C_{23}H_{24}O_4N_2}$

3) Protocatechualdehydroth (B. 36, 2925 C. 1903 [2] 1066).

[1] 1089).

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4) Aethylester d. γ-Keto-α-Phenyl-α-[5-Keto-3-Methyl-1-Phenyl-4, 5- $C_{23}H_{24}O_4N_2$ Dihydro-4-Pyrazolyl]butan-β-Carbonsäure. Sm. 160° (B. 36, 2127 C. 1903 [2] 365). 5) 3-Phenylhydrazid d. 4-Keto-5-Methyl-2-Phenyl-1, 2, 3, 4-Tetrahydrobenzol-1, 3-Dicarbonsäure-1-Aethylester. Sm. 171° (B. 36, 2125 C. 1903 [2] 365). αγ-Di[4-Methylphenylsulfon]-γ-Oxy-α-Phenylpropan.
 u. Zers. (Am. 31, 875 C. 1904 [1] 876).
 C 58,5 — H 5,1 — O 30,5 — N 5,9 — M. G. 472. $C_{23}H_{24}O_5S$ Sm. 126° $C_{23}H_{24}O_9N_2$ 1) Diäthylester d. β -Keto- $\alpha \alpha$ -Di[4-Nitrobenzyl]propan- $\alpha \gamma$ -Dicarbon- 5. Saure. Sm. 118—119° (B. 37, 1993 C. 1904 [2] 26).
 1) Jodmethylat d. 5-Methyl-2, 4-Diphenyl-5, 6, 7, 8-Tetrahydrochinolin. Sm. 204—206° (B. 35, 3981 C. 1903 [1] 37).
 2) 4, 4'-Di[α-Methylthioureïdo]triphenylmethan. Sm. 200° (B. 37, 200 a. 1004 [1] 150). $C_{23}H_{24}NJ$ $C_{23}H_{24}N_4S_2$ 639 C. 1904 [1] 950). C23 H25 O5N *1) Methyläther d. Diacetylthebenin. Sm. 1790 (B. 37, 2787 C. 1904 [2] 716). 2) Aethylester d. Anhydrocotarninbenzoylessigsäure. Sm. 100-102°. C23 H25 O6 N (2HCl, PtCl₄) (B. 37, 2747 C. 1904 [2] 545). *1) Diäthylisocyaninjodid (Aethylroth) (R. 3, 346; B. 37, 2010 C. 1904 $C_{23}H_{25}N_2J$ [2] 124). 2) Diäthyleyaninjodid (B. 37, 2821 C. 1904 [2] 662). 1) Diäthyleyanintrijodid (B. 37, 2823 C. 1904 [2] 662).
2) Diäthylisocyanintrijodid (B. 37, 2018 C. 1904 [2] 125).
*3) Malachitgrün. Oxalat (B. 37, 635 C. 1904 [1] 950; B. 37, 3058 C. 1904 [2] 990; C. r. 139, 676 C. 1904 [2] 1653). $C_{23}H_{25}N_2J_3$ $C_{23}H_{26}ON_2$ 5) 4-Diäthylamidophenyl-4-Aethylamido-l-Naphtylketon. (133,5°) (D.R.P. 84655; B. 37, 1903 C. 1904 [2] 115). — *III, 194.
6) Diäthylisocyaninhydroxyd. Nitrat (B. 37, 2021 C. 1904 [2] 125).
1) Dibromid d. γ-Keto-αε-Di[4-Isopropylphenyl]-αδ-Pentadiën. Sm. 110° (B. 36, 3545 C. 1903 [2] 1369). $C_{28}H_{26}OBr_2$ 1) αβδε-Tetrabrom-γ-Keto-αε-Di[4-Isopropylphenyl]pentan. Sm. 1890 $C_{23}H_{26}OBr_4$ (B. 36, 3545 C. 1903 [2] 1369). C23H26O2N2 2) 4',4"-Di[Dimethylamido]-3, 4-Dioxytriphenylmethan. (B. 36, 2917 C. 1903 [2] 1065; B. 37, 3332 C. 1904 [2] 1050).

*2) Brucin. Nitroprussidwasserstoffsalz + 5 H₂O (C. 1903 [2] 385).

8) 4', 4"-Di [Dimethylamido] - 3, 4, 2', 2" - Tetraoxytriphenylmethan. $\mathbf{C_{28}H_{26}O_4N_2}$ Sm. 213° (B. 36, 2919 C. 1903 [2] 1065). C23H26O5N4 2) P-Dinitro-3, 3'-Di[1-Piperidyl] diphenylketon. Sm. 1900 (B. 37, 3485) C. 1904 [2] 1131). C 60,3 — H 5,7 — O 27,9 — N 6,1 — M. G. 458. C23H26O8N2 1) Dimethylester d. Methylendi [Phenylamidoessigsäure-N-Carbonsäure]. Sm. 142-143° (C. 1903 [2] 835). 1) α - Merkapto - 4, 4'- Di [Dimethylamido] triphenylmethan. C23H26N2S Oxalat (B. 37, 3060 C. 1904 [2] 990).
6) α-Oxy-2-Amido-4', 4"-Di[Dimethylamido]triphenylmethan. Sm. 160° C28H27ON8 u. Zers. (B. 36, 2786 C. 1903 [2] 881). 7) Methyläther d. α-Oxytri [4-Amido-3-Methylphenyl] methan. Sm. 178° (B. 37, 2875 C. 1904 [2] 778). 8) 5-Dipropylamido-4-Benzoyl-3-Methyl-1-Phenylpyrazol (B. 36, 526 C. 1903 [1] 641). C 70,9 — H 6,9 — O 4,1 — N 18,0 — M. G. 389. C28H27ON5 1) 4 - Acetylamidophenyldi [4, 6 - Diamido - 3 - Methylphenyl] methan.

2) Diphenylamidoformiat d. Nerol. Sm. 73—75° (52—53°) (J. pr. [2] 66, 502 C. 1903 [1] 517; C. 1903 [2] 877). — *III, 350.
4) Propylester d. Acetylmorphinkohlensäure. Sm. 120° (D. R. P.

1) 2,4,5-Trimethylbromphenylat d. 2-[2,4,5-Trimethylphenyl] amido-

1,2-Dihydropyridin. Sm. 158° (J. pr. [2] 69, 125 C. 1904 [1] 815).
2) Piperidocodid. Sm. 118°. 2HCl (B. 36, 1572 C. 1903 [2] 54).

2) γ -Keto- α s-Diäthylsulfon- α s-Diphenyl- β δ -Dimethylpentan (B. 37,

Sm. 205 (C. 1903 [1] 884).

106718). — *III, 670.

509 *C.* **1904** [1] 884).

*1) Narcein (C. 1903 [2] 1011).

C23H27O2N $C_{23}H_{27}O_6N$

 $C_{23}H_{27}O_8N$

 $C_{23}H_{29}N_2Br$

 $C_{28}H_{80}O_2N_2$

 $C_{28}H_{80}O_5S_2$

- C23H3007S2 1) Dicuminylidenacetonbishydrosulfonsäure. $K_2 + 3H_2O$ (B. 37, 4056 C. 1904 [2] 1649).
- C28H31O9N7
- C 50,3 H 5,6 O 26,2 N 17,9 M. G. 549.

 1) Aethylester d. Benzoylhexa[Amidoacetyl]amidoessigsäure.

 274—277° (J. pr. [2] 70, 101 C. 1904 [2] 1035).

 C 63,5 H 7,6 O 25,7 N 3,2 M. G. 435.
- C28H88O7N
 - 1) Verbindung (aus Delphocurarin). Sm. 184-185°. (2HCl, PtCl₄), (HCl, AuCl₃) (C. 1903 [1] 1188). — *III, 656.
- $C_{23}H_{34}N_{2}Br_{2}$ 1) Spartein-o-Xylylenammoniumbromid. Sm. 237° (Ar. 242,520 C.1904 [2] 1413).
- $C_{23}H_{35}O_2Br_3$ 1) Palmitat d. 3,5 Dibrom 2 Oxy-1-Brommethylbenzol. Sm. 75° (A. 332, 202 Č. 1904 [2] 211).
- $C_{23}H_{33}O_{2}Br_{2}$ 1) Acetat d. Laktukoldibromid (Laktukondibromid) (C. 1904 [1] 1162: M. 25, 791 C. 1904 [2] 1138).
- 1) Phenylamidoformiat d. α-Oxyhexadekan. Sm. 73°; Sd. 310° u. Zers.
- (Bl. [3] 31, 52 C. 1904 [1] 507). C 48,2 H 6,8 O 27,9 N 17,1 M. G. 573. C23H89O10N7 1) Pepsinglutinpepton (H. 38, 258 C. 1903 [2] 210; H. 41, 72 C. 1904
- [1] 958).
- Pepton (aus Gelatine) (H. 37, 364 C. 1903 [1] 364).
 C 76,7 H 11,1 O 4,4 N 7,8 M. G. 360. $C_{28}H_{40}ON_{2}$
 - 1) α -Aethyl- $\alpha\beta$ -Dibornylharnstoff. Sm. 178° (Soc. 85, 1192 C. 1904 [2]

- 23 IV -

- 1) P-Dibrom-o-Tolylindigo (D.R.P. 154338 C. 1904 [2] 1080). C23H14O2N2Br2
- $\mathbf{C}_{23}\mathbf{H}_{15}\mathbf{O}_{2}\mathbf{N}_{2}\mathbf{Br}$ 3) P-Brom-o-Tolylindigo (D.R.P. 154338 C. 1904 [2] 1080). 1) 3,4-Methylenätherd. 4-Keto-2-Phenylimido-3-Phenyl-5-[2-Oxy] $C_{28}H_{16}O_{8}N_{2}S$
- benzyliden tetrahydrothiazol. Sm. 160° (M. 24, 517 C. 1903) [2] 837).
- $C_{28}H_{16}O_8N_8C1$ 1) P-Chlordi[2-Naphtylamid] d. Oximidomalonsäure. Sm. 2020. K (Soc. 83, 42 C. 1903 [1] 442).
- $\mathbf{C_{28}H_{18}ON_{2}S}$ 1) 2-Phenylbenzylamido-4-Keto-5-Benzyliden-4, 5-Dihydrothiazol (C. 1903 [1] 1258).
- 1) α -Phenylhydrazon- α -[4-Sulfo-1-Naphtyl]azo- α -Phenylmethan. $C_{23}H_{18}O_3N_4S$ Na (C. 1903 [2] 427).
- 1) 1-[4-Merkaptophenyl]azo-2-Oxynaphtalin-S-4-Methylphenyl- $C_{23}H_{18}O_7N_2S_3$ äther-3,6-Disulfonsäure (J. pr. [2] 68, 275 C. 1903 [2] 994).
- Aethyläther d. α-Benzoylimido-α-[β-Benzoyl-β-Phenylhydra-zido]-α-Merkaptomethan. Sm. 170—171° (Am. 29, 79 C. 1908 [1] $C_{23}H_{21}O_{2}N_{8}S$ 523).
- 2) Verbindung + 2H₂O (aus Lophin u. Methylsulfat). Sm. 115 bis 117° u. Zers. (B. 35, 4141 C. 1903 [1] 296). $C_{23}H_{22}O_4N_2S$
- 1) Dioxytetramethylrosaminsulfonsäure + H₂O (B. 36, 2927 C. 1903 $C_{23}H_{22}O_6N_2S$ [2] 1066: B. 37, 203 C. 1904 [1] 664). 1) Aethyläther d. 5-Jod-3-Merkapto-1,5-Diphenyl-4-[2-Methyl-
- $C_{23}H_{22}N_8JS$ phenyl]-4, 5-Dihydro-1, 2, 4-Triazol. Sm. 245° (J. pr. [2] 67, 245 C. 1903 [1] 1264).
 - 2) Aethyläther d. 5-Jod-3-Merkapto-1, 5-Diphenyl-4-[4-Methylphenyl]-4,5-Dihydro-1,2,4-Triazol. Sm. 256° (J. pr. [2] 67, 245 C. 1903 [1] 1264).
- 1) Verbindung (aus d. Chlorid $C_{15}H_{14}N_8ClS$). Sm. 152° (J. pr. [2] 67, 254 C. 1903 [1] 1265). CosHosON5S
- 1) Dimethyläther d. Phenylamidothioformyldi[2-Oxyphenyl]thio- $C_{23}H_{28}O_2N_5S_2$ dicyandiamin. Sm. 210-211° (B. 36, 3325 C. 1903 [2] 1169).
- 1) Dimethyläther d. Phenylamidoformyldi [2 Oxyphenyl] thiodi- $C_{23}H_{23}O_3N_5S$ cyandiamin. Sm. 185° (B. 36, 3324 C. 1903 [2] 1169).
- 1) Phenylhydrazid d. α -[2 Methylphenylthiosulfon] β Phenyl- $C_{28}H_{24}O_8N_4S_2$ hydrazonbuttersäure. Sm. 145-146° u. Zers. (J. pr. [2] 70, 383 C. 1904 [2] 1720).

2) Phenylhydrazid d. α - [4 - Methylphenylthiosulfon] - β - Phenyl-CogHotOgNAS2 hydrazonbuttersäure. Sm. 163-164° (J. pr. [2] 70, 377 C. 1904 [2] 1719).

*1) 3,6-Di[Dimethylamido]-9-Phenylxanthen-93-Sulfonsäure. Na (B. 37, 208 C. 1904 [1] 665). $C_{23}H_{24}O_4N_2S$

1) Phenylhydrazid. d. α-[4-Methoxylphenylthiosulfon]-β-Phenyl- $C_{28}H_{24}O_4N_4S_2$ hydrazonbuttersäure. Sm. 135-136° u. Zers. (J. pr. [2] 70, 390 C. 1904 [2] 1721).

1) Phenylamid d. α -Phenylsulfon- α -[4-Oxy-5-Isopropyl-2-Methylphenyl]hydrazin- β -Carbonsäure. Zers. bei 125—130° (A. 334, $C_{23}H_{25}O_4N_3S$ 195 C. 1904 [2] 835).

CogHosO4N4Cl

195 C. 1904 [2] 555.
1) 4 - Chlor - 1, 3 - Dinitrobenzol + Di[4 - Dimethylamidophenyl]-methan. Sm. 73—74° (J. pr. [2] 68, 254 C. 1903 [2] 1064).
1) Methylenäther d. 5 - Merkapto - 3 - Methyl-1 - Phenylpyrazol-2-Chlormethylat. Sm. 201° (A. 331, 205 C. 1904 [1] 1218).
1) Methylenäther d. 5 - Merkapto - 3 - Methyl - 1 - Phenylpyrazol-2-Thenylpyrazol-2 - Methylenäther (A. 281, 206 G. 1904 [1] 1218). $C_{28}H_{26}N_4Cl_2S_2$

 $C_{29}H_{26}N_4Br_2S_2$ Brommethylat. Sm. 176° (A. 331, 206 C. 1904 [1] 1218). 1) Methylenäther d. 5-Merkapto-3-Methyl-1-Phenylpyrazol-2-CosHasN4JaS

Jodnethylat. Sm. 197° u. Zers. (A. 331, 205 C. 1904 [1] 1218).

2) Verbindung (aus Chlordimethyläther u. Strychnin). 2 + PtCl.,
+ AuCl. (A. 334, 54 C. 1904 [2] 948). C, H, O, N, Cl

1) Jodpropylat d. Papaverin (B. 37, 3812 C. 1904 [2] 1575). $C_{9}H_{9}O_{4}NJ$ 2) Jodisopropylat d. Papaverin. Sm. 93-940 (B. 37, 3812 C. 1904

[2] 1575). 1) Jodmethylat d. Oxycodeindiacetat. Zers. bei 248-255° (B. 36, C23 H28 O6 NJ 3070 C. 1903 [2] 953).

— 23 V —

 $C_{23}H_{17}O_{3}N_{4}ClS$ 1) α -Phenylhydrazon- α -[4-Sulfo-1-Naphtyl]azo- α -[2-Chlorphenyl]methan. K (C. 1903 [2] 427).

C₂₈H₂₆O₂N₂Br₂J 1) Jodäthylat d. isom. Dibromstrychnin. Sm. 251° (Bl. [3] 31, 389

C. 1904 [1] 1280). C₂₈H₂₆O₂N₂BrJ 1) Jodäthylat d. isom. Bromstrychnin. Sm. 272° (Bl. [3] 31, 387 C. 1904 [1] 1279).

C₂₄-Gruppe.

*2) 1,3,5-Triphenylbenzol (M. 25, 975 C. 1904 [2] 1599). C24H18

*3) 4,4'-Diphenylbiphenyl. Sm. 320° (A. 332, 51 C. 1904 [2] 40).

1) 2-Methyl-1,3,4-Triphenyl-R-Penten. Sm. 162-163 (Soc. 83, 372 C,4H,0 C. 1903 [1] 569). C 92,3 — H 7,7 — M. G. 312. $C_{24}H_{24}$

1) 1-Methyl-2, 3, 5-Triphenyl-R-Pentamethylen. Sm. 121-1220 (Soc. 83, 373 C. 1903 [1] 569). 2) isom. 1-Methyl-2,3,5-Triphenyl-R-Pentamethylen. Sd. 260—2620

(Soc. 83, 373 C. 1903 [1] 569). C 86,2 - H 13,8 - M. G. 334

 $C_{24}H_{46}$ 1) Kohlenwasserstoff (aus Petroleum) (C. 1904 [1] 409).

24 II —

 Dinaphtylenthiophen. Sm. 278° (275—276°). Pikrat (B. 36, 966 C. 1903 [1] 1087; B. 36, 1584 C. 1903 [2] 46). C 78,7 — H 3,8 — O 17,5 — M. G. 366. CoaH10S $C_{24}H_{14}O_4$

1) Bisnaphtoketocumaran. Sm. 218° u. Zers. (Soc. 83, 1130 C. 1903 [2] 1060).

C24H15N

C 90,9 — H 4,7 — N 4,4 — M. G. 317. 1) 9,10-Phenanthro-1',2'-Naphtocarbazol. Sm. 220° (Soc. 83, 275) C. 1903 [1] 588, 883).

2) 9,10-Phenanthro-2',1'-Naphtocarbazol. Sm. 225,5° (Soc. 83, 276 C. 1903 [1] 589, 883).

 $C_{24}H_{16}O$ C 90.0 - H 5.0 - O 5.0 - M. G. 320.1) 1,4-Diphenyl-α-Naphtofuran. Sm. 120-121° (B. 36, 2435 C. 1903 2] 503). 3) Lakton d. Diphenyl-2-Oxy-l-Naphtylessigsäure. Sm. 183° (B. 37, C24H18O2 672 C. 1904 [1] 953). 4) Lakton d. Diphenyl-1-Oxy-2-Naphtylessigsäure. Sm. 145—190° u. Zers. (B. 37, 671 C. 1904 [1] 953). Anhydrid d. $\alpha\alpha\delta$ -Triphenyl- $\alpha\gamma$ -Butadiën- $\beta\gamma$ -Dicarbonsäure. Sm. 218° (B. 37, 2659 C. 1904 [2] 523). C 75,0 — H 4,2 — O 20,8 — M. G. 384. $C_{24}H_{16}O_8$ *2) Anhydrid C24H16O5 1) 7-0xy-3-Benzoyl-4-Methylen-2-Phenyl-1, 4-Benzpyran-22-Carbonsäure. Sm. 245° (B. 37, 1968 C. 1904 [2] 231). 2) 5,7-Dioxy-3-Benzoyl-4-Methylen-2-Phenyl-1, 4-Benzpyran-2²-Carbonsäure. Sm. 263° u. Zers. (B. 37, 1970 C. 1904 [2] 232). C24H16O6 3) Lakton d. α -Oxy- γ -Keto- β -Benzoyl- β -Phenyl- α -[3,4-Dioxyphenyl]propan-3,4-Methylenäther-y-Carbonsäure. Sm. 179° (A. 333, 257 C. 1904 [2] 1391). 4) isom. Lakton d. α -Oxy- γ -Keto- β -Benzoyl- β -Phenyl- α -[3,4-Dioxy-phenyl] propan - 3, 4 - Methylenäther - γ - Carbonsäure. Sm. 172° (A. 333, 257 C. 1904 [2] 1391). 2) α - [3,4-Dibenzoxylphenyl] äthen- $\beta\beta$ -Dicarbonsäure. Sm. 200—201° C,4H,6O8 u. Zers. (B. 36, 2935 C. 1903 [2] 888). 7) α-Oxy-β-Keto-αβ-Diphenyl-α-[1-Naphtyl]äthan (α-Naphtylbenzoïn). Sm. 132—133° (B. 37, 2760 C. 1904 [2] 707). C24H18O2 Sm. 118° (B. 36, 2433 8) 3-Benzoylmethyl-2, 5-Diphenylfuran. C. 1903 [2] 503). 9) Benzoat d. 2-Oxy-1-Benzylnaphtalin. Sm. 95-970 (G. 33 [2] 491 C. 1904 [1] 656). 10) Benzoat d. 4-Oxy-l-Benzylnaphtalin. Sm. 102—103° (G. 33 [2] 474
 C. 1904 [1] 655). 4) cis-1, 2, 3-Tribenzoyl-R-Trimethylen. Sm. 215° (B. 36, 2429 C. 1903 C24H18O8 [2] 502). 5) trans-1, 2, 3-Tribenzoyl-R-Trimethylen. Sm. 292° (B. 36, 2431 6) Lakton d. δ -Oxy- δ -[4-Methoxyl]- $\alpha\gamma$ -Diphenyl- $\alpha\gamma$ -Butadiën- β -Carbonsäure. Sm. 195° (B. 36, 2525 C. 1903 [2] 575; A. 333, 275 C. 1904 [2] 1392). 7) 2-Oxybenzoat d. 4-Oxy-l-Benzylnaphtalin. Sm. 85—86° (G. 33 [2] 476 C. **1904** [1] 655). *1) $\alpha \alpha \delta$ -Triphenyl- $\alpha \gamma$ -Butadiën- $\beta \gamma$ -Dicarbonsäure + 4 $^{1}/_{2}$ H_{2} 0. Sm. 218 bis 219 $^{\circ}$ u. Zers. (wasserfrei). + 2 CHCl₃. Na₂ + 6 $^{1}/_{2}$ H_{2} 0, Ca + 4 H_{2} 0, Ba + 4 H_{2} 0, Piperidinsalz (B. 37, 2657 C. 1904 [2] 522). $C_{24}H_{18}O_4$ *6) Chinhydron (aus 2-Phenyl-1, 4-Benzochinon). Sm. 1776 (B. 37, 880 C. 1904 [1] 1143). 10) Di[1-Naphtylester] d. Bernsteinsäure. Sm. 163° (B. 35, 4081 C. 1903 [1] 74). 11) Di[2-Naphtylester] d. Bernsteinsäure. Sm. 155° (B. 35, 4082) C. 1903 [1] 74). *6) Verbindung (aus 1,3-Dioxybenzol) (B. 36, 3051 C. 1903 [2] 1008).
7) αγ-Lakton d. α-Oxy-γ-Keto-β-Benzoyl-β-Phenyl-α-[4-Oxyphenyl]-propan-4-Methyläther-γ-Carbonsäure. Sm. 170° (A. 333, 269 C24H18O5 C. 1904 [2] 1392). 4) Tetraacetat d. Tetraoxy-ββ-Phenylennaphtylenoxyd (T. d. Tetraoxybrasan). Sm. 208—209° (B. 36, 2197 C. 1903 [2] 381).
*1) 4,4'-Diphenylazobenzol. Sm. 250° (C. 1904 [1] 1491).
*2) 4,4'-Di[Phenylazo]biphenyl. Sm. 233,5° (A. 332, 81 C. 1904 [2] 43).
2) 3-Methyl-2,4,6-Triphenylpyridin. Sm. 141—142°. HCl, Pikrat (Soc. 83, 363 C. 1903 [1] 577, 1129).
2) 3(A mido. 2'(A Methyl = 9 - [4 - A midonhenyl] - 1 2 - Naphtekridin C24H18O9 $\mathbf{C}_{24}\mathbf{H}_{18}\mathbf{N}_{2}$ $C_{24}H_{18}N_4$ $C_{24}H_{19}N$ 3) 3'-Amido - 2'- Methyl - 9 - [4 - Amidophenyl] - 1, 2 - Naphtakridin. Sm. 318°. 2 HCl, HNO₃ (C. 1903 [1] 884). C24H19N3 3) 4-Keto-2, 3, 5-Triphenyl-1, 2, 3, 4-Tetrahydrobenzol (Triphenylcyklo- $C_{24}H_{20}O$

hexenon). Sm. 181—191° u. Zers. (B. 37, 1146 C. 1904 [1] 1266). 4) isom. Triphenylcyklohexenon. Sm. 136° (B. 37, 1147 C. 1904 [1]

1266).

4) $\alpha\beta$ -Dioxy- $\alpha\beta$ -Diphenyl- α -[1-Naphtyl] äthan. Sm. 198° (B. 37, 2764) $C_{24}H_{20}O_2$ C. 1904 [2] 708).
5) Methyläther d. 7-Oxy-5-Methyl-2-Phenyl-4-Benzyliden-1,4-Benzpyran. Sm. 141—145° (B. 35, 1809 C. 1902 [2] 118). — *III, 548. 11) Aethyläther d. 6-Oxy-2-Phenyl-3-Benzyliden-2,3-Dihydro-1,4- $C_{24}H_{20}O_{8}$ Benzpyron. Sm. 106° (B. 37, 3170 C. 1904 [2] 1059). Sm. 164° (B. **36**, 2960 5) Diäthyläther d. Hydrochinonphtalein. $C_{24}H_{20}O_5$ C. 1903 [2] 1006). *5) Tribenzat d. $\alpha\beta\gamma$ -Trioxypropan. Sm. 71,5—72° (76°) (B. 36, 1573 C24H20O6 C. 1903 [2] 225; B. 36, 4341 C. 1904 [1] 434). 8) Dibenzoat d. 3,6-Dioxy-2,5-Diathyl-1,4-Benzochinon. Sm. 2010 (B. 37, 2386 C. 1904 [2] 307). $C_{24}H_{20}O_7$ 5) Tetramethyläther d. Phloroglucinphtalein (B. 36, 1075 C. 1903 [1] 1181). *3) Tetraacetat d. Verb. C₁₆H₁₂O₄. Sm. 212-214° (M. 25, 887 C. 1904 C24H20O8 [2] 1313). 2) Tetraacetat d. Cocacetin. Sm. 180° (J. pr. [2] 66, 410 C. 1903 [1] $C_{24}H_{20}O_{11}$ 527). $\begin{matrix}\mathbf{C_{24}H_{20}N_4}\\\mathbf{C_{24}H_{20}Pb}\end{matrix}$ 5) Base (aus Anilinschwarz) (C. 1903 [2] 1297). *1) Bleitetraphenyl. Sm. 222—224° (B. 37, 1126 C. 1904 [1] 1257).
*1) Zinntetraphenyl. Sm. 220° (B. 37, 321 C. 1904 [1] 637; C. 1904 $C_{24}H_{20}Sn$ [1] 353). *9) 2,4,6-Tri[4-Methylphenyl]-1,3,5-Triazin. Sm. 278° (Soc. 85, 263) $C_{24}H_{21}N_3$ C. 1904 [1] 1005). 2) γ-Keto-βγ-Diphenyl-α-[4-Isopropylphenyl]propen. Sm. 103—104°
 (B. 35, 3968 C. 1903 [1] 31). $C_{24}H_{22}O$ 3) isom. γ -Keto- $\beta\gamma$ -Diphenyí- α -[4-Isopropylphenyl]propen. Sm. 65° (B. 35, 3968 C. 1903 [1] 31). 4) αγ-Dibenzoyl-β-Phenylbutan. Sm. 103,5—104,5° (Soc. 83, 362 C. 1903 [1] 577, 1129). $\mathbf{C_{24}H_{22}O_{2}}$ 2) Acetat d. α -Oxy- γ -Keto- $\alpha\beta\delta$ -Triphenylbutan. Sm. 109—111° (M. 24, $C_{24}H_{22}O_{3}$ 723 C. 1904 [1] 167). $C_{24}H_{22}O_4$ 12) 4-Acetoxyl-2,5-Dimethyltriphenylessigsäure. Sm. 230—231° u. Zers. Na (B. 37, 667 C. 1904 [1] 953). 13) cis- $\alpha\alpha\delta$ -Triphenylbutan- $\beta\gamma$ -Dicarbonsäure. Sm. 175° (B. 37, 2669) C. 1904 [2] 524). 14) trans- $\alpha\alpha\delta$ -Triphenylbutan- $\beta\gamma$ -Dicarbonsäure. Sm. 205° (B. 37, 2669 C. 1904 [2] 524). $\mathbf{C}_{24}\mathbf{H}_{22}\mathbf{O}_{6}$ 2) Verbindung (aus Acenaphtenchinon u. Acetessigsäureäthylester). Sm. 274—275° (G. 32 [1] 367 C. 1903 [1] 639).

*1) Tetraacetat d. Brasilin. Sm. 143—145° (B. 36, 3952 C. 1904 [1] 170). C24H22O9 2) Diacetat d. Hexaoxybrasantetramethyläther. Sm. 234° (B. 36, 2205 C. 1903 [2] 382). C24H22N2 10) 4 - Phenylhydrazon - 3, 5 - Diphenyl - 1, 2, 3, 4 - Tetrahydrobenzol. Sm. 181° (B. 36, 2134 C. 1903 [2] 366). 2) 3, 5-Di[4-Methylphenyl]-1-[2, 4-Dimethylphenyl]-1,2,4-Triazol. Sm. 168° (*J. pr.* [2] 67, 492 *C.* 1903 [2] 251).
*1) 4-Keto-1,3-Dibenzyliden-5-Isopropyl-2-Methyl-1,2,3,4-Tetra- $\mathbf{C}_{24}\mathbf{H}_{28}\mathbf{N}_{8}$ $C_{24}H_{24}O$ hydrobenzol (Dibenzylidenmenthenon) (C. 1903 [2] 1373). C24H24O2 6) 2,3-Dioxy-1-Methyl-2,3,5-Triphenyl-R-Pentamethylen. Sm. 68 bis 80° (Soc. 83, 372 C. 1903 [1] 569). 2) 4-Oxy-2-Methyl-5-Isopropyltriphenylessigsäure. Sm. 197—198° $C_{24}H_{24}O_{8}$ (B. 37, 668 C. 1904 [1] 953). 3) 4-Oxy-3-Methyl-6-Isopropyltriphenylessigsäure. Sm. 241° u. Zers. Ag (B. 37, 670 C. 1904 [1] 953). C 57,1 — H 4,8 — O 38,1 — M. G. 504. C24H24O12 1) Verbindung (aus Gallacetophenon). K (Soc. 83, 131 C. 1903 [1] 89, $C_{24}H_{26}O$ *3) Aethyläther d. α-Oxytri[4-Methylphenyl]methan. Sm. 114° (B. 37,

2) Benzyläther d. α-Oxybenzylidencampher. Sm. 94-95° (Soc. 83,

2) Diäthylester d. γ -Benzoylmethyl- α -Phenyl- α -Buten- δ δ -Dicarbonsäure. Sm. 92,5—93° (C. 1903 [2] 944).

3157 C. 1904 [2] 1048).

109 C. 1903 [1] 459).

 $C_{24}H_{26}O_{2}$

 $C_{24}H_{26}O_5$

- 2) Evernursäure. Sm. 191-192° u. Zers. K + 2H₂O (*J. pr.* [2] **63**, 534; *J. pr.* [2] **68**, 20 *C.* 1903 [2] 511). *II, 1235. $C_{24}H_{26}O_{9}$
- 4) Tetraäthylester d. 1,4-Naphtochinon-2,3-Dimalonsäure. Sm. 98° (B. 33, 577). *II, 1230. C,4H,6O,0
- $C_{24}H_{27}N_3$ 6) 1,3,5-Tribenzylhexahydro-1,3,5-Triazin. Sd. 230—240° (D.R.P. 139394 C. 1903 [1] 678). 4) Aethylester d. l-Benzoylsantonigen Säure. Sm. 75° (G. 25 [1] 515).
- $C_{24}H_{28}O_4$ · *II, 978.
- C24H28O7 2) Dihydroflavaspidsäurexanthen. Sm. 257—259° u. Zers. (A. 329, 312, 332 C. 1904 [1] 798).
- *2) β -Flavaspidsäure (Polystichocitrin) (*C.* 1898 [2] 1103; *A.* 329, 322 Anm. *C.* 1904 [1] 799; *A.* 329, 310 *C.* 1904 [1] 798). 3) α -Flavaspidsäure. Sm. 92° (*A.* 329, 310 *C.* 1904 [1] 798). *III, C24H28O8
- *2) 6'- Amido 42, 43-Di [Dimethylamido] 3'- Methyltriphenylmethan. Sm. 187,5° (B. 36, 2782 C. 1903 [2] 881). $C_{24}H_{29}N_{8}$
- 3) Di[2-Methyl-5-Isopropylphenylester] d. Bernsteinsäure. Sm. 37°; C24H80O4 Sd. 264—268°₅ (B. 35, 4081 C. 1903 [1] 74).
 - 4) Di[3-Methyl-6-Isopropylphenylester] d. Bernsteinsäure. Sm. 63°; Sd. oberh. 360° (B. 35, 4081 C. 1903 [1] 74).
- 2) Pikroglobularin. Sm. 100° u. Zers. (Ar. 241, 295 C. 1903 [2] 515). 4) Anhydrid (aus d. Säure $C_{12}H_{16}O_{8}$). Ca_{3} + $2H_{2}O$, Ag_{6} (M. 24, 186 C. 1903 [2] 20). $C_{24}H_{80}O_{7}$ C24H30O15
- 4) Isobiliansäure + H₂O. Sm. 244—245° (*M.* 24, 53 *O.* 1903 [1] 765). 3) Verbindung (aus Asclepias syriaca L.). Sm. 82—83° (*J. pr.* [2] 68, 409 $C_{24}H_{84}O_{8}$ C24H86O2
- C. 1904 [1] 105). *1) Dehydrocholeïnsäure. Sm. 183—184° (M. 24, 29 C. 1903 [1] 764).
 *2) Cholansäure. Sm. 294—295° (M. 24, 30 C. 1903 [1] 764).
 C 84,2 — H 11,1 — O 4,7 — M. G. 342.
 1) Alstol. Sm. 162° (B. 37, 4110 C. 1904 [2] 1656).
 4) i-Dibornylester d. Bernsteinsäure. Sm. 82° (C. r. 132, 1574). — $C_{24}H_{88}O_{4}$
- C24H86O7 $C_{24}H_{88}O$
- $C_{24}H_{88}O_4$ *III, 339. C 61,3 — H 8,1 — O 30,6 — M. G. 470. 1) Dioscin + 3 H₂O. Sm. 247—250° (C. 1904 [2] 118).
- C24H38O9
- C24H38O12
- C 55,6 H 7,3 O 37,1 M. G. 518. 1) Hexaäthylester d. Hexan- $\alpha\gamma\gamma\delta\delta\zeta$ -Hexacarbonsäure (Soc. 85, 614 C. 1904 [1] 1254, 1553).
- 4) Verbindung (aus Asclepias syriaca L.). Sm. 108—110° (J. pr. [2] 68, 399 C. 1904 [1] 105). $C_{24}H_{40}O$
 - 5) Verbindung (aus Asclepias syriaca L.). Sm. 145—146° (J. pr. [2] 68, 411 C. 1904 [1] 105).
 7) Verbindung (aus Asclepias syriaca L.) (J. pr. [2] 68, 405 C. 1904
- $C_{24}H_{40}O_{2}$ [1] 105).
- *1) Desoxycholsäure. Sm. 172—173°. Ba, + Essigsäure (M. 24, 23 C24H40O4 C. 1903 [1] 764).
- C24H40O5 *1) Cholsäure. $+C_2H_6O$. Sm. 1970 (C. 1903 [2] 727; M. 24, 32 C. 1903 [1] 764).
- $C_{24}H_{40}O_{21}$ C 43,4 — H 6,0 — O 50,6 — M. G. 664. 1) Oxycellulose (C. r. 136, 898 C. 1903 [1] 1081).
- *5) Manneotetrose (*O. r.* 136, 1569 *O.* 1903 [2] 347). C 79,1 H 12,1 O 8,8 M. G. 364. $C_{24}H_{42}O_{11}$
- $C_{24}H_{44}O_{2}$ 1) Aethylester d. Behenolsäure. Sm. 15-16° (B. 36, 3602 C. 1903
- [2] 1314). Acetylphellonsäure. Sm. 80° (M. 25, 283 C. 1904 [1] 1573). $C_{24}H_{44}O_4$
- 3) Propylester d. Propionylricinolsäure. Sd. 310-320 6 (B. 36, 788) C. 1903 [1] 824).
 - 4) Isobutylester d. Acetylricinolsäure. Sd. 255-260 (B. 36, 786)
- $C_{24}H_{44}N_{2}$
- C. 1903 [1] 824).
 3) 1,3-Di[Diisobutylamidomethyl]benzol. Fl. (2HCl, HgCl₂), (2HCl, PtCl₄), 2Pikrat (B. 36, 1675 C. 1903 [2] 29).
 3) Aethylester d. Phellonsäure. Sm. 66° (M. 25, 294 C. 1904 [1] 1573).
 4) Aethylester d. Isophellonsäure. Sm. 53° (M. 25, 294 C. 1904 [1] $\mathbf{C}_{24}\mathbf{H}_{46}\mathbf{O}_{8}$ 1573).

C 76.4 - H 12.5 - N 11.1 - M. G. 377. $C_{24}H_{47}N_8$

1) 2,5-Diundekyl-1,3,4-Triazol. Sm. 89° (J. pr. [2] 69, 505 C. 1904 [2] 601).

 $C_{24}H_{48}N_4$

C 73,4 — H 12,2 — N 14,3 — M. G. 392.

1) 3,6-Diundekyl-1,4-Dihydro-1,2,4,5-Tetrazin. Sm. 142° (J. pr. [2] **69**, 505 *C*. **1904** [2] 601).

- 24 III -

1) $\alpha\alpha$ -Dibromdinaphtylenthiophen. Sm. 362—363° (B. 36, 3770 C. 1903 $C_{94}H_{10}Br_{2}S$ [2] 1445).

1) α -Bromdinaphtylenthiophen. Sm. 202° (B. 36, 3769 C. 1903 [2] $C_{24}H_{11}BrS$ 1445)

1) Verbindung (aus 3,3'-Dichlor-4,4'-Diamidobiphenyl). + Essigsäure- $C_{24}H_{12}O_8Cl_4$

1) Verbinding (aus 5,5-Denior-4,4-Diamidohphenyi). + Essignatre-anhydrid (Soc. 83, 690 C. 1903 [2] 38).
1) Gem. Anhydrid d. Benzol-1,2-Dicarbonsäure u. Borsäure. Sm. 165° (B. 36, 2224 C. 1903 [2] 421).
*1) 1-Naphtalinindigo (D.R.P. 153418 C. 1904 [2] 679).
*2) 2-Naphtalinindigo (D.R.P. 153418 C. 1904 [2] 679). $C_{24}H_{12}O_{12}B$

 $\mathbf{C}_{\mathbf{94}}\mathbf{H}_{\mathbf{14}}\mathbf{O}_{\mathbf{2}}\mathbf{N}_{\mathbf{2}}$

C 76,2 - H 3,7 - O 12,7 - N 7,4 - M. G. 378. $C_{24}H_{14}O_{8}N_{2}$

1) 1-[2-Oxy-1-Naphtylazo]-9,10-Anthrachinon (B. 37, 4186 C. 1904) $[2]^{-}1742$).

2) 2-[1-Oxy-2-Naphtylazo]-9,10-Anthrachinon. Sm. 262-264° (C. 1904) [1] 289).

3) 2-[4-Oxy-1-Naphtylazo]-9,10-Anthrachinon. Sm. 278° (C. 1904) [1] 289).

 $C_{24}H_{14}O_4S_2$ 1) Verbindung (aus Thiophenochinon). Sm. 96° (A. 336, 131 C. 1904. [2] 1298).

1) Lakton d. P-Bromdiphenyl-2-Oxy-I-Naphtylessigsäure. Sm. 162 $C_{24}H_{15}O_{2}Br$ bis 164° (B. 37, 673 C. 1904 [1] 954).

2) Lakton d. P-Bromdiphenyl-1-Oxy-2-Naphtylessigsäure. Sm. 205° (B. 37, 671 C. 1904 [1] 953).

C 75,6 - H 3,9 - O 16,8 - N 3,7 - M. G. 381. $C_{24}H_{15}O_4N$ 1) Lakton d. ?-Nitrodiphenyl-1-Oxy-2-Naphtylessigsäure. Sm. 2410

(B. 37, 672 C. 1904 [1] 953). 2) 2-Oxy-1-[9-Phenanthrylazo]naphtalin. Sm. 240° (B. 36, 2518 C. 1903 C24H16ON2

[2] 507). 1) Triphenyläther d. 2,3,5-Trimerkapto-1,4-Benzochinon. Sm. 169° C24H16O2S8

(A. 336, 142 C. 1904 [2] 1299). 1) Tetramethyläther d. Tetrachlordioxyfluoresceïn. Sm. 175° (B. 36, $C_{24}H_{16}O_7Cl_4$ 1079 C. 1903 [1] 1182).

C24H17ON3 8) Monophenylhydrazon d. Chinophtalon. Sm. 206° (B. 37, 3019) C. 1904 [2] 1410).

9) Verbindung (aus Chinolylacetophenon-2-Carbonsäure). Sm. 102—105° (B. 37, 3012 C. 1904 [2] 1409).
8) Indophenol (aus 4,4'-Di[4-Oxyphenylamido]diphenylamin) (D. R. P.

 $C_{24}H_{17}O_{2}N_{8}$ 153 130 C. 1904 [2] 799). C24H17O8N8 C 72,9 — H 4,3 — O 12,1 — N 10,6 — M. G. 395.

1) Phenylamid d. 4-Benzoxyl-l-Naphtylazoameisensäure. Sm. 230° u. Zers. (A. 334, 198 C. 1904 [2] 835).

2) 4-Phtalidyl-3-Methyl-5-Phenyl-1-[4-Nitrophenyl]pyrazol. Sm. 169° C24H17O4N8 (B. 37, 586 C. 1904 [1] 940).

C 72,2 — H 4,3 — O 20,1 — N 3,5 — M. G. 399. C24H17O5N

1) Dimethylenäther d. γ -Keto - γ - [4-(3,4-Dioxybenzyliden)amidophenyl]-α-[3,4-Dioxyphenyl]propen. Sm. 189° (B. 37, 393 C. 1904 [1] 657).

 $\mathbf{C}_{24}\mathbf{H}_{17}\mathbf{O}_{12}\mathbf{N}_{3}$ C 53,4 — H 3,1 — O 35,6 — N 7,8 — M. G. 539.

1) Tri[4-Nitrobenzoat] d. $\alpha\beta\gamma$ -Trioxypropan. Sm. 1920 (A. 335, 284 C. 1904 [2] 1285)

 $C_{24}H_{17}N_3S_3$ 1) Farbstoff (aus Phenazthioniumchlorid u. 2, 2'-Diamidodiphenyldisulfid)

(C. 1904 [2] 1175). 1) 3-Brom-7,8-Di[Phenylhydrazon]naphtacen. Sm. 134° (A. 327, 89 $C_{24}H_{17}N_4Br$ C. 1903 [1] 1228).

- $C_{24}H_{18}ON_2$ 8) 4,5-Benzoylmethylen-3,6-Diphenyl-4,5-Dihydro-1,2-Diazin. Sm. 235° (B. 36, 2432 C. 1903 [2] 503).
- C24H18ON4 4) 6-Benzoyl-3-Methyl-1,4-Diphenylbipyrazol. Sm. 166° (B. 36, 528) C. 1903 [1] 642).
- $C_{24}H_{18}O_{2}N_{2}$ 16) 1,2-Di[Benzoylamido]naphtalin. Sm. 130° (Soc. 83, 1192 C. 1903) [2] 1444).
- $\mathbf{C}_{24}\mathbf{H}_{18}\mathbf{O}_{2}\mathbf{N}_{4}$ *1) 4,4'-Di[4-Oxyphenylazo]biphenyl (B. 36, 2973 C. 1903 [2] 1031).
- 1) 2,3,5-Triphenyläther d. 2,3,5-Trimerkapto-1,4-Dioxybenzol. Sm. 111,5—112,5° (A. 336, 140 C. 1904 [2] 1299).
 *1) 2,5-Di[Phenylamido]-4-Phenylimido-1-Keto-1,4-Dihydrobenzol. $C_{24}H_{18}O_2S_8$
- $C_{24}H_{19}ON_3$ Sm. 202-203 (Am. 30, 534 C. 1904 [1] 366).
- $C_{24}H_{19}O_{2}N$ 7) 2 - Oxy - 1 - $[\alpha$ - 2 - Oxybenzylidenamidobenzyl] naphtalin. Sm. 174° (G. 33 [1] 32 C. 1903 [1] 926).
 - 8) 2-Oxy-I-[α-Benzoylamidobenzyl]naphtalin. Sm. 225° (G. 33 [1] 8 C. 1903 [1] 925).
- $C_{24}H_{19}O_3N$ 3) 1,3-Di[2-Oxyphenyl]-1,3-Dihydro-4,2- β -Naptisoxazin. Sm. 162° (*G*. **33** [1] 15 *C*. **1903** [1] 925).
- $C_{24}H_{19}O_4N_8$
- (6. 35 [1] 15 C. 1903 [1] 325).

 2) 3-Methyl-4-Benzyl-5-Phenyl-1-[4-Nitrophenyl]pyrazol-4²-Carbonsäure. Sm. 219⁶ (B. 37, 587 C. 1904 [1] 940).

 3) Diacetat d. 1-Keto-2, 3-Di [4-Oxyphenyl]-1, 3-Dihydroisoindol. Sm. 205—208⁶ (M. 17, 437). *II, 1156.

 C 67,1 H 4,4 O 18,7 N 9,8 M. G. 429. $C_{24}H_{19}O_5N$ $C_{24}H_{19}O_5N_8$
- 1) 4-Nitro-1,2,3-Trioxybenzol + 2 Molec. Chinolin. Sm. 74° (B. 37, 116 C. 1904 [1] 585).
- 13) 5-Keto-3-Methyl-4-Benzyliden-1-Diphenylmethyl-4, 5-Dihydro- $\mathbf{C}_{24}\mathbf{H}_{20}\mathbf{ON}_2$ pyrazol. Sm. 176° (J. pr. [2] 67, 175 C. 1903 [1] 874).
- $C_{24}H_{20}O_{2}N_{4}$ 8) Aethylester d. 4-Phenylazo-1,5-Diphenylpyrazol-3-Carbonsäure.
- Sm. 148—149° (B. 37, 2205 C. 1904 [2] 323).

 C₂₄H₂₀O₄N₂ *2) 1-Naphtylamid d. d-Weinsäure. Sm. 213—214° (Soc. 83, 1359 C. 1904 [1] 84).
 - *3) 2-Naphtylamid d. d-Weinsäure. Sm. 279° (Soc. 83, 1359 C. 1904 [1] 84).
 - 5) Dimethyläther d. 4,4'-Di[Furylamido]-3,3'-Dioxybiphenyl. Sm. 181--182° (B. 30, 2015). *III, 518.
 *1) Tetraphenylkieselsäure (D.R.P. 140102 C. 1903 [1] 799).
- $C_{24}H_{20}O_4Si$
- $\mathbf{C}_{24}\mathbf{H}_{21}\mathbf{ON}$ 7) γ -Keto- γ -[4-p-Methylbenzylidenamidophenyl]- α -[4-Methylphenyl]propen. Sm. 188° (B. 37, 393 C. 1904 [1] 657).
- C24H21ON5
- 7) Cinnamylidenhydrazid d. 6 Cinnamylidenhydrazidopyridin-8-Carbonsäure. Sm. 265° (B. 36, 1113 C. 1903 [1] 1184).

 *3) 4,4'-Di[4-Oxyphenylamido]diphenylamin. Sm. 208° (D. R. P. 153130 C. 1904 [2] 799). $C_{24}H_{21}O_{2}N_{3}$
- 4) Dimethyläther d. γ-Keto-γ-[4-(4-Oxybenzyliden)amidophenyl]-α-[4-Oxyphenyl]propen. Sm. 191° (B. 37, 394 C. 1904 [1] 657). $C_{24}H_{21}O_3N$
- $\mathbf{C}_{24}\mathbf{H}_{21}\mathbf{O}_{3}\mathbf{N}_{8}$ 7) Benzoyl-γ-Phenylsemicarbazon-α-[2-Oxyphenyl]-α-Buten. Sm. 204 bis 205° (B. 37, 3185 C. 1904 [2] 991). 8) Trimethyläther d. 2,4,6-Tri[4-Oxyphenyl]-1,3,5-Triazin. Sm. 217°
- $C_{24}H_{21}O_4N$ $C_{24}H_{21}O_4N_8$
- (Soc. 85, 264 C. 1904 [1] 1005).

 2) Diäthylrhodol (D.R.P. 116415). *III, 578.
 C 69,4 H 5,1 O 15,4 N 10,1 M. G. 415.

 1) Di[Methylphenylamid] d. Benzoximidomalonsäure. Sm. 157—158° (Soc. 83, 43 C. 1903 [1] 443).
- $\mathbf{C}_{24}\mathbf{H}_{22}\mathbf{ON}_{2}$ 4) N - Butyl - α' - Phenylpyrophtalin. Sm. 168°. (2HCl, PtCl₄) (B. 36, 3923 C. 1904 [1] 98).
- $\mathbf{C}_{24}\mathbf{H}_{22}\mathbf{ON}_{4}$ 3) 5-Keto-4-[4-Methylphenyl]hydrazon-3-Methyl-1-Diphenylmethyl-4,5-Dihydropyrazol. Sm. 162—163° (J. pr. [2] 67, 175 C. 1903 [1] 874).
- 9) η-[α-Imidobenzyl]amido-η-Oxy-β-Acetyl-αη-Diphenylpropen. Sm. 132° (Soc. 83, 1376 C. 1904 [1] 164, 450).
 5) s-Tetramethylrhodamin (D.R.P. 44002, 56293, 116415). *III, 575. $C_{24}H_{22}O_2N_2$
- $\mathbf{C}_{24}\mathbf{H}_{22}\mathbf{O}_{8}\mathbf{N}_{2}$ 1) γ -[4-Methylphenyl]sulfon- ε -Keto- $\alpha \varepsilon$ -Diphenyl- α -Penten. Sm. 145° $C_{24}H_{22}O_8S$ (Am. 31, 184 C. 1904 [1] 877).
 - 2) $s-[4-Methylphenyl]sulfon-<math>\gamma-Keto-\alpha s-Diphenyl-\alpha-Penten.$ (Am. 31, 180 C. 1904 [1] 876). - *III, 186.
- 5) Methylenäther d. 2,6-Di[Benzoylamido]-3,4-Dioxy-1-Propylbenzol. $C_{24}H_{22}O_4N_2$ Sm. 248° (Ar. 242, 91 C. 1904 [1], 1007).

2) 1,4-Diacetat d. 2,5-Dimerkapto-1,4-Dioxybenzol-2,5-Dibenzyläther. Sm. 203—205° (A. 336, 154 C. 1904 [2] 1300).
4) d-Usninsäureoximanilid. Sm. 222—230° (A. 310, 259). — *II, 1204. C 54,8 — H 4,2 — O 30,4 — N 10,6 — M. G. 526.
54 (A. 310, 234).
55 (A. 310, 259). — *II, 1204. C 54,8 — H 4,2 — O 30,4 — N 10,6 — M. G. 526.

 $C_{24}H_{22}O_4S_2$ $C_{24}H_{22}O_5N_2$ $C_{24}H_{22}O_{10}N_4$

C24H27OaN7

1) 4,4'-Biphenyldihydrazon d. Oxalessigsäuredimethylester (Bl. [3] **31**, 89 *C*. **1904** [1] 580). γ-Chlor-α-Keto-αβ-Diphenyl-γ-[4-Methylphenyl]propan. Sm. 142 bis 143° (B. 35, 3967 C. 1903 [1] 31).
 β-Methyl-α-Phenylhydrazid d. α-Benzoximido-β-Phenylhydrazon-buttersäure. Sm. 179° (A. 328, 70 C. 1903 [2] 249). $C_{24}H_{23}OC1$ Sm. 142 $C_{24}H_{23}O_8N_5$ 3) Lakton d. α-Oxy-31-Nitro-41,42-Di[Dimethylamido]triphenyl- $C_{24}H_{23}O_4N_3$ methan-2°-Carbonsäure. Sm. 175° (C. r. 132, 748). — *II, 1020. C 66,5 — H 5,3 — O 18,5 — N 9,7 — M. G. 433.

1) Phenylhydrazon d. Aldehyd C₁₈H₁₇O₆N (aus Bebeerin). Sm. 166° (Ar. 236, 539). — *III, 621. $C_{24}H_{23}O_5N_8$ Tri[Phenylamido] phosphinphenylimid. Sm. 232°. HCl, HNO₃, H₂SO₄ (Am. 19, 357; 27, 444; C.r. 136, 1666 C. 1903 [2] 427). — *II, 164.
 Dipropyläther d. 3,5-Dimerkapto-4-Thiocarbonyl-1-Keto-2,6-Di-1) Tri[Phenylamido] phosphinphenylimid. Sm. 232°. $\mathbf{C}_{24}\mathbf{H}_{23}\mathbf{N}_4P$ CoaHoaOSo phenyl-1,4-Dihydrobenzol. Sm. 88° (B. 37, 1607 C. 1904 [1] 1444). $C_{24}H_{24}O_2N_2$ 15) $\alpha\gamma$ -Di[α -Oximidobenzyl]- β -Phenylbutan. Sm. 204-205° (Soc. 83, 363 C. 1903 [1] 577, 1129). $C_{24}H_{24}O_3N_4$ *4) Tri[Benzoylamidomethyl]amin (C. 1903 [2] 656). $C_{24}^*H_{24}^*O_4N_2$ *1) Dibenzoat d. β -[3,5-Dioximido-4-Methylhexahydrophenyl]propen. Sm. 129° (A. 330, 274 C. 1904 [1] 948). 3) Dibenzoat d. α-d-Campherdioxim. Sm. 1530 (Soc. 85, 910 C. 1904) [2] 597). 4) Dibenzoat d. β-d-Campherdioxim. Sm. 191° (Soc. 85, 910 C. 1904) [2] 598). 5) isom. Dibenzoat d. β -d-Campherdioxim. Sm. 134° (Soc. 85, 911 C. 1904 [2] 598). Dibenzoat d. γ-d-Campherdioxim. Sm. 138⁰ (Soc. 85, 912 C. 1904) [2] 598). 7) Di[Phenylamidoformiat] d. γ-Oxy-α-[2-Oxyphenyl]butan. 107,5° (B. 36, 2872 C. 1903 [2] 833).
 5) Acetophenonazobilirubin (H. 29, 411). - *III, 487. $\mathbf{C}_{24}\mathbf{H}_{24}\mathbf{O}_4\mathbf{N}_4$ C24H24O5S2 2) ε-Keto-αγ-Diphenylsulfon-α-Phenylhexan. Sm. 107—109° (B. 37, 510 C. 1904 [1] 884). C24H24O6N2 $\underline{\text{C}}$ 66,1 — H 5,5 — O 22,0 — N 6,4 — M. G. 436. 1) Diäthylester d. $\gamma \delta$ -Diimido- $\alpha \zeta$ -Diketohexan- $\beta \varepsilon$ -Dicarbonsäure. Sm. 156,5° (A. 332, 154 C. 1904 [2] 192). $\mathbf{C}_{24}\mathbf{H}_{25}\mathbf{ON}$ 4) a-Acetylamidotri[4-Methylphenyl]methan. Sm. 211° (B. 37, 3159 C. 1904 [2] 1048). $C_{24}H_{25}O_{2}N$ 4) Acetyltri [4-Methylphenyl] methylhydroxylamin. Sm. 157° (B. 37, 3161 C. 1904 [2] 1049). 5) Benzoylderivat d. Base C₁₇H₂₁ON. Sm. 99—100° (Suc. 83, 107 C. 1903 [1] 233, 458). 6) 3, 4-Methylenäther d. 4', 4"-Di[Dimethylamido]-3, 4-Dioxytriphenylmethan. Sm. 110-112° (B. 36, 2919 C. 1903 [2] 1065). C 67,0 — H 6,0 — O 7,4 — N 19,5 — M. G. 430. $C_{24}H_{26}O_{2}N_{2}$ C24H26O2N6 1) 1, 4-Di[β -Phenylsemicarbazon]-5-Isopropyl-2-Methyl-1, 4-Dihydrobenzol. Zers. bei 242° (A. 334, 194 C. 1904 [2] 835).

3) 3,4-Methylenäther d. 4',4"-Di[Dimethylamido]-3,4,2"-Tetra-oxytriphenylmethan. Sm. 115° (B. 36, 2920 C. 1903 [2] 1065).

4) Dibenzoat d. 1-Oxamidocarvoxim. Sm. 168° (A. 330, 373 C. 1904 $C_{24}H_{26}O_4N_2$ [1] 948). C 63,4 — H 5,7 — O 24,7 — N 6,2 — M. G. 454.

1) Triāthylester d. 1-[5-Isoxazoly1]-4-[2,5-Dimethyl-1-Pyrroly1]- $C_{24}H_{26}O_7N_9$ benzol-13,43,44-Tricarbonsäure. Sm. 1890 (B. 36, 396 C. 1903 [1] 723; B. 36, 2696 C. 1903 [2] 952). C24H27O3N8 2) trimolec. Anhydroformaldehyd-4-Anisidin. Sm. 132° (B. 36, 48 C. 1903 [1] 505).

C 56,6 — H 5,3 — O 18,9 — N 19,2 — M. G. 509.

1) Benzylidenhydrazid d. Benzoyltetra[Amidoacetyl]amidoessig-

säure. Sm. 275° (B. 37, 1300 C. 1904 [1] 1337).

- C 62,9 H 5,9 O 28,0 N 3,1 M. G. 457.Co.H.O.N
 - 1) Triäthylester d. 2,5-Dimethylpyrrol-1-Benzoylbrenztraubensäure-3,4-Dicarbonsäure. Sm. 123° (B. 36, 395 C. 1903 [1] 723).
- CoaHorNoJ 1) Verbindung (aus 2-Methylchinoliniodäthylat) (B. 37, 2016 C. 1904 [2] 125).
- 6) 4, 6-Dioxy-1, 3-Di [4-Aethylamidobenzyl] benzol. Sm. 101°. H.SO. CoaHos OoN. (M. 23, 995 C, 1903 [1] 290).
- 9) 1, 2, 3, 4-Tetrahydro-2-Naphtylamid d. d-Weinsäure. $\mathbf{C}_{04}\mathbf{H}_{08}\mathbf{O}_4\mathbf{N}_{0}$ Sm. 2210 (Soc. 83, 1345 C. 1904 [1] 83).
 - 10) 1, 2, 3, 4-Tetrahydro-6-Naphtylamid d. d-Weinsäure. Sm. 1860 (Soc. 83, 1344 C. 1904 [1] 83).
- *4) Di[Phenylamidoformiat] d. d-Oxamidocarvoxim. Sm. 1610 (A. 330, $\mathbf{C}_{94}\mathbf{H}_{98}\mathbf{O}_{4}\mathbf{N}_{4}$ 274 C. 1904 [1] 948).
 - 5) Di[Phenylamidoformiat] d. 1-Oxamidocarvoxim. Sm. 152° (A. 330, 273 C. 1904 [1] 948).
 - 6) Di [Phenylamidoformiat] d. Eucarvonoxaminoxim. Sm. 157° (A. 330, 277 C. 1904 [1] 948).
- Co4H98O45N19 C 23.9 - H 2.3 - O 59.8 - N 14.0 - M. G. 1204.
- 1) Nitrocellulose (C. r. 136, 899 C. 1903 [1] 1081).
 3) α Oxy 6 Amido 4', 4"-Di[Dimethylamido]-3 Methyltriphenyl-C24H29ON methan (2,5-Amidomethylmalachitgrün). Sm. 2000 u. Zers. (B. 36, 2783 C. 1903 [2] 881).
- C 79.3 H 8.0 O 8.8 N 3.9 M. G. 363. $C_{24}H_{29}O_2N$ 1) 2-Dekylchinolin-4-Carbonsäure (Bl. [3] 29, 1205 C. 1904 [1] 355).
- 1) Diphenylmenthylimidoxanthid (C. 1904 [1] 1347). C 62,9 H 6,5 O 24,4 N 6,1 M. G. 458. 1) Homonarceïnamid. Sm. 111° (D.R.P. 58394). *II, 1219. C₂₄H_{a0}OS C24H30O7N3
- $C_{24}H_{80}O_8N_4$ *1) Anhydrid d. Milchzuckerdi [Phenylhydrazon]. Sm. 223—224° (Bl. [3] 29, 1225 *C.* 1904 [1] 361). C 69,7 — H 7,5 — O 19,4 — N 3,4 — M. G. 413.
- C24H31O5N
 - 1) Butylhydroxyd d. Papaverin. Salze siehe (B. 37, 3810 C. 1904 [2] 1574).
- 1) Verbindung (aus Dibromasaron). Sm. 109.5° (Ar. 242, 101 C. 1904 C24H31O6Br 11 1008).
- 2) Piperidomethylmorphimethin. Fl. (2HCl, PtCl₄) (B. 36, 1593 C24H32O2N2 C. 1903 [2] 54).
 - 3) Di [4-Methylphenylamid] d. β -Methylheptan $\gamma\zeta$ -Dicarbonsäure. Sm. 229° (C. r. 136, 459 C. 1903 [1] 696). C 72,7 — H 8,1 — O 12,1 — N 7,1 — M. G. 396. 1) Diäthylderivat d. Yohimboasäure. Sm. 189° (191,5—192°) (B. 37,
- C24H32O3N2 1764 C. 1904 [1] 1527).
- C 60,5 H 6,7 O 26,9 N 5,9 M. G. 476.

 1) Tetraäthylester d. 2,5,2',5'-Tetramethyl-1,1'-Bipyrrol-3,4,3',4'-Tetracarbonsäure. Sm. 126—127° (B. 37, 2699 C. 1904 [2] 532). $C_{24}H_{32}O_8N_2$
- *3) Di[Phenylhydrazon] d. Milchzucker (Bl. [3] 29, 1225 C. 1904 [1] 361). $C_{24}H_{82}O_9N_4$ 4-Acetat d. Di[4-Oxy-2-Methyl-5-Isopropylphenyl]amin-4'-Aethyl-äther. Sm. 122-123° (B. 36, 2888 O. 1903 [2] 875). C24H33O3N
- H 7.7 O 22.3 N 3.2 M. G. 431. C24H33O6N 1) 3,4,3',4'-Tetramethyläther- $\beta\beta$ -Diäthyläther d. α -[$\beta\beta$ -Dioxyäthyl]-imido- $\alpha\beta$ -Di[3,4-Dioxyphenyl]äthan. Fl. (A. 329, 57 C. 1903 [2] 1448).
- 1) Dichlormonodesoxybiliansäure. Sm. 249—250° (M. 24, 52 C. 1903 C₉₄H₉₄O₇Cl₉ [1] 765).
- *1) Diäthyläther d. Di[4-Oxy-2-Methyl-5-Isopropylphenyl]amin. (HCl, $C_{94}H_{35}O_{9}N$
- SnCl₂ + 3H₂O), HJ (B. 36, 2887 C. 1903 [2] 874).

 *1) Verbindung (aus Thymoläthyläther). Sm. 79°. 2HNO₃ (B. 36, 2886 $C_{24}H_{85}O_9N_8$ C. 1903 [2] 874).
- 2) Verbindung (aus Isobiliansäure). Zers. bei 270° (M. 24, 56 C. 1903 C24H36O8N2 [1] 766).
- 1) Alstoldibromid. Sm. 135—138° (B. 37, 4111 C. 1904 [2] 1656). C 71,1 H 9,6 O 15,8 N 3,5 M. G. 405. CoaHasOBro C24H39O4N
 - 1) 2 Nitrophenylester d. Stearinsaure. Sm. 60-61° (A. 332, 206 C. 1904 [2] 211).

C24H27O7N8P

2) isom. Phenylhydrazonoxystearinsäure. Sm. 102,5-105° (B. 36, 2659) $C_{24}H_{40}O_{8}N_{2}$ C. 1903 [2] 826). \dot{C} 47,4 $-\dot{H}$ 7,2 $\dot{-}$ O 31,6 - N 13,8 - M. G. 608. $C_{24}H_{44}O_{12}N_6$ 1) Hexa[Aethylamidoformiat] d. d-Mannit. Sm. 270° (C. r. 138, 636 C. 1904 [1] 1068). 1) Bromacetoxylbehensäure (C. 1903 [1] 319; J. pr. [2] 67, 298 C. 1903 $C_{24}H_{45}O_4Br$ [1] 1404). C 76,2 — H 12,2 — O 4,2 — N 7,4 — M. G. 378. $C_{24}H_{46}ON_2$ 1) 2,5-Diundekyl-1,3,4-Oxdiazol. Sm. 56°; Sd. 275°, (J. pr. [2] 69, 503 C. **1904** [2] 601). 1) 2,5-Diundekyl-1,3,4-Thiodiazol. Sm. 49° (J. pr. [2] 69, 504 C. 1904 $C_{24}H_{46}N_2S$ [2] 601). 1) Tri[Diisobutylamido]phosphin. Sd. 190—200 18 (A. 326, 170 C. 1903 C₂₄H₅₄N₈P [1] 762). _ 24 IV _ 1) Verbindung (aus 3-Brom-7,8-Acenaphtenchinon). Sm. noch nicht bei 300° (A. 327, 88 C. 1903 [1] 1228). $C_{24}H_{10}ON_2Br_2$ $C_{24}H_{10}O_4N_2\dot{S}$ 1) αα-Dinitrodinaphtylenthiophen (B. 36, 3771 C. 1903 [2] 1446). $C_{24}H_{14}O_6N_2S$ 1) 2-[2-Oxy-1-Naphtylazo]-9,10-Anthrachinon-27-Sulfonsäure (C. **1904** [1] 289). 1) ?-Dibrom-m-Xylylindigo (D.R.P. 154338 C. 1904 [2] 1080). $\mathbf{C}_{24}\mathbf{H}_{16}\mathbf{O}_{2}\mathbf{N}_{2}\mathbf{Br}_{2}$ 2) Brom-m-Xylylindigo (D.R.P. 154338 C. 1904 [2] 1080). 3) 3-oder-6-Brom-2,5-Di[Phenylamido]-4-Phenylimido-1-Keto- $\mathbf{C}_{24}\mathbf{H}_{17}\mathbf{O}_{2}\mathbf{N}_{2}\mathbf{Br}$ $C_{24}H_{18}ON_3Br$ 1,4-Dihydrobenzol. Sm. 173° (B. 35, 3854 C. 1903 [1] 26; Am. **30**, 531 *C*. **1904** [1] 366). 1) Trichlordiäthylamidofluoran (D.R.P. 139727 C. 1903 [1] 796). C24H18O8NCl8 $C_{24}H_{18}O_4N_5Cl$ 1) 6-Chlor-2, 4-Dinitro-1, 3, 5-Tri[Phenylamido] benzol. Sm. 179°. $+ C_0H_0$, $+ C_7H_8$, $+ C_2H_4O_2$, $+ CHCl_8$ (Am. 31, 367 C. 1904 [1] 1408). $C_{24}H_{18}O_7N_4S_2$ 1) Disazoverbindung (aus 4,4'-Diamido-3,3'-Dimethylbiphenyl-6,6'-Disulfonsäure u. 2-Oxynaphtalin). Ba (J. pr. [2] 66, 566 C. 1903 [1] 519). 1) ?-Dibrom-?-Di[Phenylamido]-1,2-Benzochinon + Anilin. Sm. C24H19O2N8Br 123° (B. 35, 3853 C. 1903 [1] 26). 1) 2-[2-Methylphenyl]imido-4-Keto-3-[2-Methylphenyl]-5-Benzy- $C_{24}H_{20}ON_2S$ lidentetrahydrothiazol. Sm. 179-180°. + C₃H₅ONa (C. 1903) [1] 1258). $C_{24}H_{20}O_8NC1$ 1) Chlordiäthylamidofluoran. Sm. 148° (D. R. P. 139 727 C. 1903 [1] 796). $\mathbf{C}_{24}\mathbf{H}_{20}\mathbf{O}_{3}\mathbf{N}_{2}\mathbf{Cl}_{2}$ 1) s-Dichlordiäthylrhodamin (D.R.P. 108347). — *III, 575. *1) 4, 4'-Di[Phenylsulfonamido]biphenyl. Sm. 234,5° (B. 37, 3772 $\mathbf{C}_{24}\mathbf{H}_{20}\mathbf{O}_{4}\mathbf{N}_{2}\mathbf{S}_{2}$ Anm. C. 1904 [2] 1547). $C_{24}H_{20}O_4N_2S_3$ 1) Di[Phenylamid] d. Disulfid-4, 4'-Disulfonsäure. Sm. 212,50 (R. 22, 360 C. 1904 [1] 23). $C_{24}H_{21}O_3N_2Br_3$ 2) 1,3-Diacetylderivat d. 2,5,6-Tribrom-4-Oxy-1,3-Di[Phenylamidomethyl]benzol. Sm. 207—208° (B. 37, 3908 C. 1904 [2] 1593). 3) 3,4-Diacetylderivat d. 2,5,6-Tribrom-4-Oxy-1,3-Di[Phenylamidomethyl benzol. Sm. 200-201° (B. 37, 3909 C. 1904 [2] 1593). 1) $\alpha\beta$ -Dibrom- ε -[4-Methylphenyl]sulfon- γ -Keto- $\alpha\varepsilon$ -Diphenylpentan (Am. 31, 182 C. 1904 [1] 877). C24H22O3Br3S 1) P-Dichlor-1, 2-Di[P-Dimethylamido-P-Oxybenzoy1]benzol (Bl. [3] $\mathbf{C}_{24}\mathbf{H}_{22}\mathbf{O}_4\mathbf{N}_2\mathbf{Cl}_2$ 29, 61 C. 1903 [1] 456). 1) 3-Acetylderivat d. 2,5,6-Tribrom-4-Oxy-1,3-Di[2-Methyl- $C_{24}H_{23}O_{2}N_{2}Br_{3}$ phenylamidomethyl] benzol. Sm. 190-1910 (B. 37, 3912 C. 1904 [2] 1593). 2) 3-Acetylderivat d. 2,5,6-Tribrom-4-Oxy-1,3-Di[4-Methylphenylamidomethyl] benzol. Sm. 206 ° (B. 37, 3910 C. 1904 [2] 1593). C24H26O8N4S2 1) Phenylhydrazid d. α -[2,4-Dimethylphenylthiosulfon]- β -Phenylhydrazonbuttersäure. Sm. 150° u. Zers. (J. pr. [2] 70, 387 C. 1904 [2] 1720). 1) 1,8-Di[\$\textit{\beta}\$-Phenylhydrazonpropylsulfon] benzol. Sm. 1720 u. Zers. C24H26O4N4S2 (J. pr. [2] 68, 326 C. 1903 [2] 1171).

1) Tri[?-Nitro-2,4-Dimethylphenylamid] d. Phosphorsäure (A. 326,

252 C. 1903 [1] 868).

 $C_{24}H_{28}O_2N_4S_2$

1) Di[Phenylamidothioformiat] d. Oxamidocarvoxim. Sm. 142 bis 143° (B. 32, 1347). — *III, 86.

C24H28O8NC1

 $C_{24}H_{28}O_{10}N_2S_2$

Verbindung (aus Chlordimethyläther u. Narkotin). Sm. 210° u. Zers. + AuCl₃ (A. 334, 55 C. 1904 [2] 948).
 Benzol-1,3-Disulfonsäure + 2 Molec. 4-Amidobenzol-1-Carbonsäureäthylester. Zers. bei 235° (D. R. P. 150070 C. 1904 [1] 975).

C24H30ON3P

- 3) Tri[Aethylphenylamid] d. Phosphorsäure. Sm. 182° (A. 326, 257 C. 1903 [1] 869).
- 4) Tri[2,4-Dimethylphenylamid] d. Phosphorsäure. Sm. 198 (225) (A. 326, 252 C. 1903 [1] 868; C. 1904 [2] 647).
- 5) Tri [2,5 Dimethylphenylamid] d. Phosphorsäure. Sm. 247°
 (A. 326, 252 C. 1903 [1] 868).
- 6) Tri [3, 4 Dimethylphenylamid] d. Phosphorsäure. Sm. 1830 (A. 326, 252 C. 1903 [1] 868).

C24H30O4NCl

1) Chlorbutylat d. Papaverin + 2H₂O. Sm. 131-132°. 2+PtCl₄,

+ AuCl₃ (B. 37, 3810 C. 1904 [2] 1574).

1) Brombutylat d. Papaverin + 2H₂O (B. 37, 3810 C. 1904 [2] $C_{24}H_{80}O_4NBr$ 1574).

C24H30O4NJ

1) Jodisobutylat d. Papaverin. Sm. 171-172° (B. 37, 3811 C. 1904 [2] 1574). *1) Aethylester d. $\alpha\beta$ -Di[1, 2, 3, 4-Tetrahydro-2-Isochinolyl]äthan-

 $\mathbf{C}_{24}\mathbf{H}_{31}\mathbf{O}_{2}\mathbf{N}_{2}\mathbf{J}$

2-Jodammoniumessigsäure. Sm. 158-159° (B. 36, 1168 C. 1903) [1] 1187).

C24H88O2N2J C24H54ON8P

1) Jodmethylat d. Piperidocodid. Sm. 256° (B. 36, 1593 C. 1903 [2] 54).

 $C_{24}H_{54}O_{6}N_{3}P_{3}$

1) Tri[Diisobutylamid] d. Phosphorsäure. Fl. (A. 326, 200 C. 1903 [1] 821)*.* 1) trim. Phosphinodiisobutylamin. Sm. 79°; Sd. 255°₁₅ (A. 326,

 $C_{24}H_{54}N_3SP$

193 *C.* **1903** [1] 820). 1) Tri[Diisobutylamid] d. Thiophosphorsäure. Fl. (A. 326, 218 C. 1903 [1] 822).

— 24 V

2) Phosphoryltri[4-Methylphenylthioharnstoff]. Sm. 95-100° u. C₂₄H₂₇ON₆S₈P Zers. (Soc. 85; 367 C. 1904 [1] 1407).

C₂₅-Gruppe.

*1) Tetraphenylmethan. Sm. 282° (285°); Sd. 431°, 60 (B. 36, 408 C. 1903 C25H20 [1] 586; B. 36, 1090 C. 1903 [1] 1356).

*2) α-Dypnokinakolen. Sm. 98°; Sd. 292—295°₄₀ (C. 1903 [2] 1373).
3) 2,5-Dimethyl-1,3,4-Triphenyl-R-Penten. Sm. 127—128° (Soc. 83, 370) $C_{25}H_{22}$

- C. 1903 [1] 569).
- *1) Kohlenwasserstoff (aus α-Dypnopinakolen). Sm. 145°; Sd. 275—280°₂₈ C25H24 C. 1903 [2] 1373).
 - 2) Kohlenwasserstoff (aus α-Dypnopinakolen). Sm. 115°; Sd. 275-280°₂₅ (*C.* **1903** [2] 1373). C 92,0 — H 8,0 — M. G. 326.

C25H26

- 1) 1,3-Dimethyl-2,4,5-Triphenyl-R-Pentamethylen. Sm. 80-81 ° (Soc. 83, 371 C. 1903 [1] 568).
- 2) isom. 1, 3-Dimethyl-2, 4, 5-Triphenyl-R-Pentamethylen. Sd. 246-248 % (Soc. 83, 371 C. 1903 [1] 568).
- 3) Kohlenwasserstoff (aus a-Dypnopinakolen) (Gemisch) (C. 1903 [2] 1373).

- 25 II -

2) 9-Phenyl-9-[4-Oxyphenyl]fluoren. Sm. 1910 (B. 37, 77 C. 1903 C25H18O

3) 9,9-Diphenylxanthen. Sm. 2000 (B. 37, 2369 C. 1904 [2] 344). 2) Benzoat d. 2-Oxy-1, 4-Diphenylbenzol. Sm. 105° (B. 36, 1409 $\mathbf{C_{25}H_{18}O_2}$ C. 1903 [1] 1358).

$\mathbf{C_{25}H_{18}O_3}$	2) Anhydrid d. $\alpha\alpha$ -Diphenyl- δ -[4-Methylphenyl]- $\alpha\gamma$ -Butadiën- $\beta\gamma$ -Dicarbonsäure. Sm. 194° (B. 37, 2661 C. 1904 [2] 523).
$C_{25}\mathbf{H}_{18}O_{5}$	2) 2,4,6-Triphenyl-1,4-Pyron-3,5-Dicarbonsäure (Dehydrobenzyliden-bisbenzoylessigsäure). Sm. 141° u. Zers. (G. 33 [2] 150 C. 1903 [2] 1270).
$C_{25}\mathbf{H}_{18}O_{8}$	2) Triacetat d. 2,3,7-Trioxy-9-Phenylfluoron. Sm. 230—233° (B. 37.
$\mathbf{C}_{25}\mathbf{H}_{19}\mathbf{N}$	1174 C. 1904 [1] 1161). C 90,1 — H 5,7 — N 4,2 — M. G. 333.
02511911	1) 4-Phenylimido-1-Diphenylmethylen-1,4-Dihydrobenzol. Sm. 133
	bis 138°. HCl, Pikrat $+ \frac{1}{2}$ C ₆ H ₆ (B. 37, 609 C. 1904 [1] 887).
	2) 9-Phenyl-9-[4-Amidophenyl]fluoren. Sm. 179° (B. 37, 75 C. 1904 [1] 519).
	3) 5,5-Diphenyl-5,10-Dihydroakridin. Sm. 243,5—244,5° (B. 37, 3202 C. 1904 [2] 1472).
$\mathbf{C_{25}H_{19}Br}$	1) Verbindung (aus α-Dypnopinakolen). Sm. 140°; Sd. oberh. 360° u. Zers.
$C_{95}H_{90}O$	(C. 1903 [2] 1373). *3) 4-Oxytetraphenylmethan (B. 37, 660 C. 1904 [1] 952).
$\mathbf{C_{25}^{25}H_{20}^{20}O_{2}}$	5) 3^4 -Methyläther d. 5-Oxy-1, 2-Diphenyl-3-[4-Oxyphenyl]benzol.
	Sm. 159—160° (Am. 31, 148 C. 1904 17, 806).
	 2-Phenyläther d. α, 2-Dioxytriphenylmethan. Sm. 120° (B. 37, 2368 1904 [2] 344).
$C_{25}H_{20}O_4$	4) 2 ^{3,4} -Methylenäther d. 4-Keto-1-Oxy-1,6-Diphenyl-2-[3,4-Dioxy-
20 20 2	phenyl]-1,2,3,4-Tetrahydrobenzol. Sm. 240° (Am. 31, 148 C. 1904
	[1] 807).
	5) $\alpha\alpha$ -Diphenyl- δ -[4-Methylphenyl]- $\alpha\gamma$ -Butadiën- $\beta\gamma$ -Dicarbonsäure. Sm. 231°. Na ₂ (B. 37, 2660 C. 1904 [2] 523).
$C_{25}H_{20}O_{6}$	5) 22, 6-Dimethyläther-33,4-Methylenäther d. 6-Oxy-2-[2-Oxyphenyl]-
	3-[3,4-Dioxybenzyliden]-2,3-Dihydro-1,4-Benzpyron. Sm. 207—209°
	(B. 37, 3171 C. 1904 [2] 1059). 6) 7,8-Dimethyläther-3 ^{3,4} -Methylenäther d. 7,8-Dioxy-2-Phenyl-3-
	[3, 4-Dioxybenzyliden]-2, 3-Dihydro-1, 4-Benzpyron. Sm. 185
	(B. 37, 3172 C. 1904 [2] 1059).
	7) Dimethylester d. 2,4-Dibenzoyl-1-Methylbenzol-3,5-Dicarbon-
	säure. Fl. (P. Ch. S. Nr. 203). — *II, 1192. 8) Aethylester d. β -[3,4-Dibenzoxylphenyl]akrylsäure. Sm. 104—105°
	(B. 36, 2935 C. 1903 [2] 888).
$\mathbf{C}_{25}\mathbf{H}_{20}\mathbf{O}_{9}$	4) Monobenzoat d. 1,2,3,5,6,7-Hexaoxy-9,10-Anthrachinontetra-
$\mathbf{C_{25}H_{20}O_{12}}$	methyläther. Sm. 195—205° (D.R.P. 151724 C. 1904 [1] 1587).
-20-20-12	*1) Pentaacetat d. 3,5,7-Trioxy-2-[3,4-Dioxyphenyl]-1,4-Benzpyron (P. d. Quercetin). Sm. 193—194° (B. 37, 1405 C. 1904 [1] 1356).
$\mathbf{C}_{25}\mathbf{H}_{20}\mathbf{N}_2$	*2) α-Phenylazotriphenylmethan. Sm. 113-114° (B. 36, 1089 C. 1903
	[1] 1355). 8) α -Phenylimido- α -Diphenylamido- α -Phenylmethan. Sm. 170° (B. 37,
	2005 U. 1904 [2] 521).
	 3-[α-Phenylhydrazonbenzyl]acenaphten. Sm. 140° (A. 327, 96 1903 [1] 1228).
$\mathbf{C_{25}H_{21}N}$	3) 4-Amidotetraphenylmethan. Sm. 256°. HCl (B. 36, 407 C. 1903
C III NI	[1] 909).
$egin{array}{c} \mathbf{C_{25}H_{21}N_{3}} \ \mathbf{C_{25}H_{22}O_{3}} \end{array}$	*1) Tetraphenylguanidin. Sm. 137—140° (B. 37, 964 C. 1904 [1] 1002).
25-22-32-3	2) 34-Methyläther d. 4-Keto-1-Oxy-1, 6-Diphenyl-2-[4-Oxyphenyl]-1,2,3,4-Tetrahydrobenzol. Sm. 233,50 (Am. 31, 147 C. 1904 [1] 806).
$\mathbf{C_{25}H_{22}O_4}$	5) 3 ⁴ -Methyläther-6-Aethyläther d. 6-Oxy-2-Phenyl-3-[4-Oxybenzy-
	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000
$C_{25}H_{22}O_5$	[2] 10:00.
	3) 34,7,8-Trimethyläther d. 7,8-Dioxy-2-Phenyl-3-[4-Oxybenzyliden]-2,3-Dihydro-1,4-Benzpyron. Sm. 186° (B. 37, 3171 C. 1904 [2] 1059).
$\mathbf{C}_{25}\mathbf{H}_{22}\mathbf{N}_2$	¹ α-Phenylhydrazidotriphenylmethan. Sm. 136—137° (R. 36, 1089)
	O. 1903 [1] 1355).
	11) α -[1-Naphtyl]imido-4-Dimethylamidodiphenylmethan. Sm. 167° (D.R.P. 41751). — *III, 150.
$\mathbf{C_{25}H_{23}N_{3}}$	2) α -Imido- α -[4-Dimethylamidophenyl]- α -[4-Phenylamido-1-Naphtyl]-
$\mathbf{C_{25}H_{24}O_{2}}$	methan, Sm. 180°, HCl (B. 37 1906 & 1904 [9] 116)
25 1124 0 2	*4) $\beta\delta$ -Dibenzoyl- γ -Phenylpentan. Sm. 162—163° (Soc. 83, 364 C. 1903 [1] 578, 1129).
	[-], -x40).

 $\mathbf{C}_{25}\mathbf{H}_{24}\mathbf{O}_{5}$ C 74,3 — H 5,9 — O 19,8 — M. G. 404. 1) 7-Acetat d. 7-Oxy-4-[3,5-Dioxyphenyl]-2-Phenyl-2,3-Dihydro-1,4-Benzpyran-4^{3,5}-Dimethyläther. Sm. 120—125° (B. 36, 2300 C. 1903 [2] 577). C25H24O11 Diacetat d. Barbaloin (Bl. [3] 21, 672). — *III, 453.
 Pentaacetat d. Acakatechin. Sm. 158—160° (C. 1904 [2] 439). 4) Pentaacetat d. Cyanomaklurin. Sm. 136-138° (C. 1904 [2] 438). $\mathbf{C_{25}H_{24}O_{12}}$ 2) Hexaacetat d. Di[P-Trioxyphenyl]methan. Sm. 152-155° (B. 37, 1177 C. 1904 [1] 1161). $\mathbf{C}_{25}\mathbf{H}_{26}\mathbf{O}_2$ C 83.8 - H 7.2 - O 8.9 - M. G. 358.1) 4,5-Dioxy-1,3-Dimethyl-2,4,5-Triphenyl-R-Pentamethylen. Sm. 143—144° (Soc. 83, 369 C. 1903 [1] 568). 2) Tetraacetat d. 1,3,6,8 - Tetraoxy - 2,4,5,7 - Tetramethylxanthen. Sm. 268—270° (M. 25, 675 C. 1904 [2] 1145). C25H26O9 C25H26O10 3) 1,3,6,8-Tetraacetat d. 1,3,6,8,9-Pentaoxy-2,4,5,7-Tetramethylxanthen. Sm. 255-260° (M. 25, 676 C. 1904 [2] 1145). C25H26O11 *1) Ononin (M. 24, 135 C. 1903 [1] 1032; M. 25, 555 C. 1904 [2] 907). C,5H,8O 2) 2-Keto-1, 3-Di [4-Isopropylbenzyliden]-R-Pentamethylen. Sm. 143° (B. 36, 1502 C. 1903 [1] 1351). 2) Methylester d. Dibenzoxyldihydropulegensäure. (A. 327, 127 C. 1903 [1] 1412). $\mathbf{C}_{25}\mathbf{H}_{28}\mathbf{O}_{6}$ Sm. 204—206° C25H28O8 *1) Acetat d. Quercetintetraäthyläther. Sm. 152-153° (Ar. 242, 239 C. 1904 [1] 1652). 2) Tetraäthylätheracetat d. Morin. Sm. 121-123° (Soc. 85, 61 C. 1904 [1] 381, 729). 4) Phenyihydrazon d. Base C₁₉H₉₂ON₉ (aus Allocinchonin). Sm. 94 bis 96° u. Zers. (M. 22, 203). — *III, 640.
2) 1-Menthylester d. 1-α-Benzoxylphenylessigsäure. Sm. 54—55° C25H28N4 C25H30O4 (Soc. 85, 1255 C. 1904 [2] 1304). C25H80O7 C 67.9 - H 6.8 - O 25.3 - M. G. 442.1) Monomethyläther d. Dihydroflavaspidsäurexanthen. Sm. 249 bis 250° (A. 329, 319 C. 1904 [1] 799). 2) Verbindung (aus Aspidin). Sm. 216° (A. 329, 332 C. 1904 [1] 800). *1) Albaspidin (Polystichalbin). Sm. 150—150,5°. Anilinsalz (C. 1895 [1] 887; 1898 [2] 1103; A. 329, 322 Anm. C. 1904 [1] 799). — *III, 474. 3) Pseudoaspidin. Sm. 158—159° (A. 329, 334 C. 1904 [1] 800). 4) Dihydroflavaspidmethyläthersäure. Sm. 201—202° (A. 329, 320 C. 1904 [1] 709. C25H32O8 C. 1904 [1] 799). 5) 2,2'-Dimethyläther d. Di[2,4,6-Trioxy-5-Propionyl-3-Methylphenyl]methan (Methylenbisaspidinol). Sm. 190-1910 (A. 329, 287 C. 1904 [1] 796).
 Spidin (Polystichin: Polystichumsäure). Sm. 124—125° (C. 1895 [1] 887; **1896** [2] 1036; **1898** [2] 1103; **1899** [2] 919; *A.* **329**, 327 *G.* **1904** [1] 799). — *III, 457, 474. C 81,1 — H 10,3 — O 8,6 — M. G. 370. C25H28O2 1) Verbindung (aus Asclepias syriaca L.). Sm. 87-88° (J. pr. [2] 68, 408 C. 1904 [1] 105). 2) Verbindung (aus Asclepias syriaca L.) (J. pr. [2] 68, 410 C. 1904 $C_{25}H_{40}O_{9}$ [1] 105). C 64,1 — H 8,5 — O 27,3 — M. G. 468. 1) Saxatsäure. Sm. 115°. Ba (J. pr. [2] 68, 41 C. 1903 [2] 512). 3) Lepranthin. Sm. 183° (A. 336, 48 C. 1904 [2] 1324). C25H40O8 C25H40O10 2) Verbindung (aus Asclepias syriaca L.) oder C₂₆H₄₄O₂. Sm. 87—90° $C_{25}H_{42}O_{2}$ (J. pr. [2] 68, 453 C. 1904 [1] 191). C 56,2 - H 7,9 - O 35,9 - M. G. 534.C25H42O12 1) Cyklamin. Sm. 225° (B. 36, 1761 C. 1903 [2] 119). C 73.2 - H 11.2 - O 15.6 - M. G. 410.C25H46O4 1) Isobutylester d. Propionylricinolsäure. Sd. 325-335 660 (B. 36, 788 C. 1903 [1] 824). 2) norm. Heptylester d. Ricinolsäure. Sd. 295 ° 10 (B. 36, 785 C. 1903) C25 H48 O8

2) Cerebronsäure. Sm. 99°. Na (H. 43, 26 C. 1904 [2] 1550).

C25H50O8

RICHTER, Lex. d. Kohlenstoffverb. Suppl. III.

C25H28ON3

 $C_{25}H_{23}O_2N_8$

25 III -

C 80,0 - H 3,5 - O 12,8 - N 3,7 - M. G. 375.C₂₅H₁₃O₃N 1) $\alpha\beta$ -Benzoylen- $\alpha_1\beta_1$ -Phtalyl-N-Phenylpyrrol (B. 35, 3959 C. 1903) 3) 3-Phenylamido-2-[1, 3-Diketo-2, 3-Dihydro-2-Indenyl]-1, 4-Naphto-C25H15O4N chinon (B. 35, 3958 C. 1903 [1] 32). $C 55,1 \rightarrow H 2,9 \rightarrow O 26,5 \rightarrow N 15,4 \rightarrow M. G. 544.$ $C_{25}H_{16}O_9N_6$ 1) 3,5,3',5'-Tetranitro-4,4'-Di[Phenylamido]diphenylketon. Sm. 262° (G. 34 [1] 382 C. 1904 [2] 111). C 75,9 — H 4,3 — O 16,2 — N 3,5 — M. G. 395. 1) 1-Naphtylester d. β -[4-Nitrophenyl]- α -Phenylakrylsäure. Sm. 126 Li. 1979 (G. 38 [9] 478 C 1904 [1] 685) C25H17O4N bis 127° (G. 33 [2] 475 C. 1904 [1] 655). C 65,9 — H 3,7 — O 21,1 — N 9,2 — M. G. 455. C25H17O6N3 1) Trinitrotetraphenylmethan. Sm. bei 330° (B. 36, 1091 C. 1903 [1] $C_{25}H_{18}O_5N_4$ *1) 3,3'-Dinitro-4,4'-Di[Phenylamido]diphenylketon. Sm. 212° (G. 34) [1] 377 C. 1904 [2] 110). 3) 9-[4-Amidophenyl]-9-Phenylxanthen. Sm. 227,5°. HCl (B. 37, 2372) $C_{25}H_{19}ON$ C. 1904 [2] 344). 4) Di[2-Naphtylamid] d. Acetoximidomalonsäure. Sm. 179° u. Zers. (Soc. 83, 42 C. 1903 [1] 442). C25H19O4N8 C 63,6 — H 4,2 — O 20,3 — N 11,9 — M. G. 472. $C_{25}H_{20}O_6N_4$ 1) Verbindung (aus Knochenkohle) (C. 1903 [2] 960). 1) α-Phenylsulfontriphenylmethan. Sm. 175-176° (B. 36, 2789 C. 1903 $C_{25}H_{20}O_{2}S$ [2] 882) 4) Phenyläther d. α - Merkapto - α - Phenylimido - α - Diphenylamido - $C_{25}H_{20}N_2S$ methan (Isothiotetraphenylharnstoff). Sm. 185-188° (B. 37, 965 C. 1904 $\mathbf{C_{25}H_{21}ON}$ C25H21O2N3 4328 C. 1904 [1] 462). 8) Verbindung (aus 2-Methylindol u. 4-Nitrobenzaldehyd). Sm. 2330 (B. 36, 4328 C. 1904 [1] 462). C 75,2 — H 5,3 — O 16,0 — N 3,5 — M. G. 399. $C_{25}H_{21}O_4N$ 1) 2^{3,4}-Methylenäther d. 4-Oximido-1-Oxy-1,6-Diphenyl-2-[3,4-Dioxyphenyl]-1,2,3,4-Tetrahydrobenzol. Sn. 190-191° (Am. 31, 149 C. 1904 [1] 807). Verbindung (aus d. Verb. C₂₅H₂₃O₄N). Sm. 128° (C. r. 139, 298
 C. 1904 [2] 714). 2) Brom-l-Naphtylat d. 2-[1-Naphtyl]amido-1,2-Dihydropyridin. Sm. 158° (J. pr. [2] 69, 129 C. 1904 [1] 815). $C_{25}H_{21}N_2Br$ 3) Brom-2-Naphtylat d. 2-[2-Naphtyl]amido-1,2-Dihydropyridin. Sm. 1820 (J. pr. [2] 69, 126 C. 1904 [1] 815). 3) 4-Dimethylamidophenyl-4-Phenylamido-l-Naphtylketon. Sm. 201 $C_{25}H_{22}ON_2$ bis 202° (D.R.P. 79390; C. 1903 [1] 87; B. 37, 1902 C. 1904 [2] 115). 4) α -[2-Oxyphenyl]- $\alpha\alpha$ -Di[2-Methyl-3-Indolyl]methan. Sm. 230—231° (B. 36, 4328 C. 1904 [1] 462; B. 37, 323 C. 1904 [1] 668). C 76,1 — H 5,6 — O 4,1 — N 14,2 — M. G. 394. 1) 3,3'-Diamido-4,4'-Di[Phenylamido]diphenylketon. Sm. 160° (G. 34) C25H22ON4 [1] 378 C. 1904 [2] 110). αβ-Di[Diphenylamido]harnstoff. Sm. 239—240° (B. 36, 3157 C. 1903 2 | 1057). 2) Verbindung (aus γδ-Diphenyl-β-Methylbutan γδ-Oxyd-βδ Dicarbonsäure).
 Sm. 182° u. Zers. (Soc. 83, 307 C. 1903 [1] 879).
 2) 1-[4-Aethylbenzylamidophenyl]azo-1-Oxynaphtalin. Sm. 135,5° $C_{25}H_{22}O_8N_2$

> C 75,6 — H 5,8 — O 8,0 — N 10,6 — M. G. 397. 1) 8-Nitro-6-tert. Amyl-2,3-Diphenyl-1,4-Benzdiazin. Sm. 189—190° (A. 327, 215 C. 1903 [1] 1408).

(A. 334, 264 C. 1904 [2] 902).

- 2) 34-Methyläther d. 4-Oximido-1-Oxy-1, 6-Diphenyl-2-[4-Oxyphenyl]- $C_{25}H_{23}O_3N$ 1,2,3,4-Tetrahydrobenzol. Sm. 196° (Am. 31, 147 C. 1904 [1] 806).
 - 3) Benzoat d. Methylapomorphin. $+ C_2H_8O$ (Sm. 85-90°) (B. 35, 4388 C. 1903 [1] 339). C 72,6 — H 5,6 — O 11,6 — N 10,1 — M. G. 413.
- C25H23O3N3
 - 1) Aethylester d. 4[oder 5|-Phenylhydrazon-5-[oder 4]-Keto-1,2-Diphenyltetrahydropyrrol-3-Carbonsäure. Sm. 150° (C. r. 139, 212) C. 1904 [2] 656).
- 2) Verbindung (aus d. Verb. $C_{25}H_{25}O_6N$). Sm. 146—147° (C. r. 139, 298 C25H28O4N C. 1904 [2] 714). C 64,5 — H 4,9 — O 27,5 — N 3,0 — M. G. 465.
- $C_{25}H_{28}O_8N$ 1) Dimethyläther d. 3-Nitrobenzylidendivanillin. Sm. 181-1830 (B. 36,
 - 3977. C. 1904 [1] 373). 2) Dimethyläther d. 4 - Nitrobenzylidendivanillin.
 (B. 36, 3975 C. 1904 [1] 373).
 C 75,0 — H 6,0 — O 12,0 — H 7,0 — M. G. 400. Sm. 186-188 °
- $C_{25}H_{24}O_3N_2$
- Verbindung (aus s-Keto-γδ-Diphenylhexan-γδ-Oxyd-β-Carbonsäure).
 Sm. 212° u. Zers. (Soc. 83, 296 C. 1903 [1] 878).
 C 70,1 H 5,6 O 11,2 N 13,1 M. G. 428.
 Benzylidenhydrazid d. α-Benzoylamidoacetylamido -β-Phenylpropionsäure. Sm. 158° (J. pr. [2] 70, 228 C. 1904 [2] 1462).
 6-Methyläther-4,5-Methylenäther d. 4,5,6-Trioxy-2-[β-Methylbenzoylamidoacetylamido]
- $C_{25}H_{24}O_3N_4$
- $C_{25}H_{24}O_4N_2$ benzoylamidoäthyl]-l-Phenylimidomethylbenzol (Benzoylcotarninanil). Sm. 165° (B. 36, 1536 C. 1903 [2] 53).
- 1) 2,5-Diacetat d. 3,6-Dimerkapto-2,5-Dioxy-1-Methylbenzol-3,6- $C_{25}H_{24}O_4S_2$ Dibenzyläther. Sm. 116-117° (A. 336, 165 C. 1904 [2] 1300).
- 2) 2, 4', 4". Tri [Acetylamido] triphenylmethan (Triacetylparaleukanilin). Sm. 200—201° (C. 1904 [1] 460).
 3) α Oxytri [4 Acetylamidophenyl] methan (Triacetylpararosanilin). $C_{25}H_{25}O_8N_8$
- $C_{25}H_{25}O_4N_3$
- Sm. 192° (C. 1904 [1] 461). C 65,4 H 5,4 O 13,9 N 15,3 M. G. 459. 1) Di[Phenylamid] d. α-Benzoylamidoacetylamidoäthan-α-Carbon- $\mathbf{C}_{25}\mathbf{H}_{25}\mathbf{O_4N_5}$ säure- β -Amidoameisensäure. Sm. 218-220° u. Zers. (J. pr. [2] 70,
- 180 *C.* 1904 [2] 1397). C 69,0 H 5,7 O 22,1 N 3,2 M. G. 435. $C_{25}H_{25}O_6N$ 1) Verbindung (aus Oxalessigsäureäthylester, Benzaldehyd u. 2-Amido-
- naphtalin). Sm. 162° (C. r. 139, 298° C. 1904 [2] 713). Chlorathylat d. 1-Aethyl-2,4,5-Triphenylimidazol (Ch. d. Aethyllophin). + AuCl₃ (A. 122, 326). — III, 27; *III, 19.
 α-Phenylimido-γ-Benzoylphenylamido-β-Methylpentan. Sm. 144°. C, H, N, Cl
- $C_{25}H_{26}ON_2$ $+ C_2H_6O$ (A. 329, 212 C. 1903 [2] 1427).
 - 5) α-Benzoyl -α-[2,5-Dimethylbenzyl]-β-[2,5-Dimethylbenzyliden]-hydrazin. Sm. 134—134,5° (C. 1903 [1] 141).
 6) Aethylhydroxyd d. 1-Aethyl-2,4,5-Triphenylimidazol (Diäthyllophin). Salze siehe (A. 122, 326; M. 17, 304). III, 27; *III, 19.
 3) 4,4'-Di[Acetylamido]-3,3'-Dimethyltriphenylmethan. Sm. 265 [2,66] (C. 1904, 13, 237).
- $C_{25}H_{26}O_2N_2$ bis 266° (C. 1904 [2] 227). C 66,7 — H 5,8 — O 21,3 — N 6,2 — M. G. 450.
- $C_{25}H_{26}O_6N_2$ 1) $\alpha\beta$ -Di[Phenylamidoformiat] d. i-3,4-Dioxy-1-[$\alpha\beta$ -Dioxypropyl]-benzol-3,4-Dimethyläther. Sm. 166-168° (B. 36, 3582 C. 1903 [2] 1363).
- C25 H27 ON8 C 77,9 — H 7,0 — O 4,2 — N 10,9 — M. G. 385. 1) Inn. Anhydrid d. α-Oxy-2-Acetylamido-4',4"-Di[Dimethylamido]triphenylmethan. Sm. 190-1910 (B. 17, 1892; B. 36, 2784 C. 1903
- [2] 881). II, 1087. C 67,0 H 6,2 O 14,3 N 12,5 M. G. 448. $C_{25}H_{28}O_4N_4$ 1) Phenylhydrazon - Phenylbenzylhydrazon d. Glykose. Sm. 190°
- (B. 37, 2624 C. 1904 [2] 588). *1) 2'-Acetylamido-42, 43-Di[Dimethylamido] triphenylmethan. Sm. 185 C25H29ON3
- bis 186° (B. 36, 2785 C. 1903 [2] 881).

 1) Amyldinaphtylester d. Phosphorsäure (D.R.P. 142971 C.1903 [2] 171). $C_{25}H_{29}O_4P$ C 70,9 - H 6,9 - O 18,9 - N 3,3 - M. G. 423. $C_{25}H_{29}O_5N$
 - 1) Diäthylester d. β -Phenylamido ζ -Keto- δ -Phenyl- β -Hepten $\gamma \varepsilon$ -Dicarbonsäure. Sm. 150° (B. 36, 2187 C. 1903 [2] 569).

C₂₅H₅₇N₈JP

C 68,3 - H 6,6 - O 21,9 - N 3,2 - M. G. 439. $C_{25}H_{29}O_6N$ 1) Aethylester d. Anhydrocotarninbenzylacetessigsäure. Fl. HCl, (2 HCl, PtCl₄) (B. 37, 2748 C. 1904 [2] 545). 3) Aethyläther d. 4', 4"-Di[Dimethylamido]-4-Oxytriphenylmethan. C, H, ON, Sm. 125° (A. 329, 80 C. 1903 [2] 1441). 5) Diathylester d. ζ-Phenylhydrazon-β-Oxy-δ-Phenyl-β-Hepten-γ ε-Di-C25H30O5N2 carbonsäure. Sm. 193° (B. 36, 2124 C. 1903 [2] 365). C 58,3 — H 5,8 — O 24,9 — N 10,9 — M. G. 514. $C_{25}H_{30}O_8N_4$ 1) Triäthylester d. 2,5-Dimethylpyrrol-1-Semicarbazonbenzoylbrenztraubensäure-3,4-Dicarbonsäure. Sm. 134° (B. 36, 397 C. 1903 [1] 723). *2) a-Oxytri[4-Dimethylamidophenyl] methan (B. 36, 4297 C. 1904 C25H31ON3 [1] 379). $C_{25}H_{31}O_8N$ 2) Homonarce inmethylester. HCl (D.R.P. 71797). — *II, 1219. 3) αα[oder αβ]-Di[1-Piperidyl]-γ-Keto-αγ-Diphenylpropan. Sm. 156 bis 157°. HCl (Soc. 85, 1322 C. 1904 [2] 1645).
 C 60,5 — H 6,4 — O 16,1 — N 16,9 — M. G. 496. $C_{25}H_{32}ON_{2}$ $C_{25}H_{32}O_5N_6$ 1) s-Di[β -Benzoylamidoacetylamidopropyl] harnstoff. Sm. 157° (J. pr. [2] **7Ö**, 214 *C*. **1904** [2] 1460). 1) Phenylamidoformiat d. Alkohol C₁₈H₃₈O (aus Oelsäure). Sm. 38° C25H41O2N (C. r. 187, 328 C. 1903 [2] 710). C 60,1 - H 8,2 - O 28,9 - N 2,8 - M. G. 499. 1) Akonin (oder $C_{35}H_{39}O_{9}N$). HCl + 2H₂O (C. 1904 [2] 1239). 1) Di[Jodisoamylat] d. Spartein. Sm. 230° (Ar. 242, 520 C. 1904 [2] C25H41O9N $C_{25}H_{48}N_2J_2$ 1413). - 25 IV - $C_{25}H_{17}O_2N_4Br$ 1) Benzoat d. 3-Phenylazo-4-[4-Bromphenyl]azo-1-Oxybenzol. Sm. 175—176,5° (B. 36, 4116 C. 1904 [1] 272). C25H19O4NS 1) α -Phenylsulfon-4-Nitrotriphenylmethan. Sm. 167—168° (B. 37, 608) C. 1904 [1] 887). 1) Triphenylester d. Phosphorsäurephenylmonamid - 2 - Carbon-C25H20O5NP säure. Sm. 94° (B. 36, 1827 C. 1903 [2] 201). Verbindung + 7 H₂O (aus Taurin u. Phfalsäureanhydrid). Sm. 50° (C. 1903 [2] 986). $C_{25}H_{29}O_{16}N_8S_2$ 1) Menthylester d. 4-Chlorphenylazo-4-Methylphenylhydrazon-C25H81O2N4Cl essigsäure. Sm. 145—147 (Soc. 83, 1126 C. 1903 [2] 24, 791). 1) Menthylester d. 4-Bromphenylazo-4-Methylphenylhydrazon- $C_{25}H_{31}O_2N_4Br$ essigsäure. Sm. $149-151^{\bar{0}}$ (Soc. 83. 1126 C. 1903 [2] 24, 791). 1) N-Laurylphenyl-3,5-Dibrom-2-Oxybenzylamin. Sm. 50-510 C₂₅H₃₃O₂NBr₂ A. 332, 202 C. 1904 [2] 211). 1) Jodmethylat d. Piperidomethylmorphimethin. Sm. 248° (B. 36, C25H35O2N2J 1594 C. 1903 [2] 54). $C_{25}H_{86}O_2N_2J_2$ 1) Di[Jodmethylat] d. Piperidocodid. Sm. 2500 (B. 36, 1593 C. 1903 [2] 54). 1) Jodbenzylat d. Sparteinjodammoniumessigsäuremethylester. Sm. 219° (Ar. 242, 518 C. 1904 [2] 1412). $\mathbf{C}_{25}\mathbf{H}_{88}\mathbf{O}_{2}\mathbf{N}_{2}\mathbf{J}_{2}$ 2) isom. Jodbenzylat d. Sparteinjodammoniumessigsäuremethyl-

C₂₆-Gruppe.

170 C. **1903** [1] 762).

ester. Sm. 245° (Ar. 242, 518 C. 1904 [2] 1412).

1) Methyltri [Diisobutylamido] phosphonium jodid. Sm. 138° (A. 326,

26 II —

 $C_{28}H_{14}O_4$ C 80,0 - H 3,6 - O 16,4 - M. G. 390.1) Di- β -Naphtocumarin. Sm. oberh. 300° (B. 36, 1972 C. 1903 [2] 377). 3) Lakton d. Säure $C_{26}H_{18}O_3$. Sm. 213—219° (B. 29, 2155). — *II, 1023. 2) Resorcinanthrachinon (B. 36, 2022 C. 1903 [2] 378). 3) Naphtofluorindin (B. 37, 3889 C. 1904 [2] 1654). $\mathbf{C}_{\mathbf{26}}\mathbf{\underline{H}_{\mathbf{16}}O_{\mathbf{2}}}$ $C_{26}H_{16}O_4$ $C_{26}H_{16}N_4$ $C_{26}H_{16}Cl_4$ 1) 10,10-Dichlor-9,9-Di[4-Chlorphenyl]-9,10-Dihydroanthracen. Sm. 158,5° (B. 37, 3618 C. 1904 [2] 1503). *1) Tetra[4-Bromphenyl]äthen. Sm. 248° (Am. 30, 456 C. 1904 [1] 377). *2) 9-Benzoyl-9-Phenylfluoren. Sm. 172° (B. 37, 2898 C. 1904 [2] 1310). $C_{26}H_{16}Br_4$ C28H18O 6) 9,10-Anhydrid d. 9,10-Dioxy-9,10-Diphenyl-9,10-Dihydrophenanthren. Sm. 194-195° (B. 37, 2903 C. 1904 [2] 1311). 7) Verbindung (aus d. Verbindung $C_{20}H_{18}O_{2}$). Sm. 157° (B. 29, 741). — *II, 993. *II, C26H18O2 2) 10-Keto-9,9-Di[4-Oxyphenyl]-9,10-Dihydroanthracen. Sm. 308 bis 309° (B. 36, 2020 C. 1903 [2] 378; B. 37, 3616 C. 1904 [2] 1503).
3) Säure (aus d. Säure C₂₆H₁₈O₂). Sm. 177—179° u. Zers. (B. 29, 2155). C26H18O8 - *II, 1023. 7) Dibenzoat d. 3,3'-Dioxybiphenyl. Sm. 92° (A. 332, 65 C. 1904 C26H18O4 [2] 42). 7-Acetoxyl-3-Benzoyl-4-Methylen-2-Phenyl-1,4-Benzpyran-22-C26H18O6 Carbonsäure. Sm. 148° (B. 37, 1969 C. 1904 [2] 231). 2) 3,8-Di[Benzylidenamido]-5,6-Naphtisodiazin. Sm. 210° (C. 1904) C26H18N4 [1] 1614). 1) 9,10-Dichlor-9,10-Diphenyl-9,10-Dihydroanthracen. Sm. 178° u. $C_{26}H_{18}Cl_2$ Zers. (C. r. 138, 1252 C. 1904 [2] 118). 1) $\alpha \alpha \beta \beta$ -Tetra[4-Bromphenyl]äthan. Sm. oberh. 300° (Am. 30, 458 $C_{26}H_{18}Br_4$ C. 1904 [1] 377). C 77,8 — H 4,7 — N 17,5 — M. G. 401. $C_{26}H_{19}N_5$ 1) Amidonaphtyldiamidonaphtophenazin. 2HCl (B. 37, 3889 C. 1904 [2] 1654). 7) 9,10-Dioxy-9,10-Diphenyl-9,10-Dihydroanthracen. Sm. 2420 (2470) C26H20O2 $(C. r. 138, 327 \ C. 1904 \ [1] \ 814; \ Bl. \ [3] \ 31, 798 \ C. 1904 \ [2] \ 529).$ 8) 9,10-Dioxy-9,10-Diphenyl-9,10-Dihydrophenanthren. Sm. 202—204° (B. 37, 2901 C. 1904 [2] 1311).
9) isom. 9,10-Dioxy-9,10-Diphenyl-9,10-Dihydrophenanthren.
178—179° (B. 37, 2903 C. 1904 [2] 1311). *2) Rhizocarpsäure (C. 1903 [2] 121). $C_{28}H_{20}O_{6}$ C 61.4 - H 3.9 - O 34.6 - M. G. 508.C26H20O11 1) Pentaacetat d. Pentaoxybrasan. Sm. 268° (B. 36, 2200 C. 1903 [2] 381). $\mathbf{C}_{26}\mathbf{H}_{20}\mathbf{O}_{14}$ *1) Hexaacetat d. 1,2,3,5,6,7-Hexaoxy-9,10-Anthrachinon. Sm. 282 bis 283° (C. 1903 [1] 398). *4) 4,4'-Di[Benzylidenamido]biphenyl. Sm. 232—233° (234°) (Soc. 85, $C_{26}H_{20}N_2$ 1176 C. 1904 [2] 1215; B. 37, 3423 C. 1904 [2] 1295).
*6) Di[Diphenylmethylen]hydrazin. Sm. 160—162° (B.37, C. 1904 [2] 991). 13) 4, 4'-Di[Phenylimidomethyl]biphenyl. Sm. 215° (A. 332, 75 C. 1904 [2] 43). $C_{26}H_{22}O$ *2) Benzhydroläther. Sm. 109° (B. 36, 2825 C. 1903 [2] 1128). 5) 4'-Oxy-4-Methyltetraphenylmethan. Sm. 201° (B. 37, 659 C. 1904 [1] 952). *2) Benzpinakon. Sm. 186° (B. 36, 1577 C. 1903 [1] 1397; C*r. 136, 694 C. 1903 [1] 967; J. pr. [2] 67, 191 C. 1903 [1] 875; B. 36, 2632 C. 1903 [2] 426; B. 37, 2761 C. 1904 [2] 707; C. r. 139, 480 C. 1904 $C_{26}H_{22}O_{2}$ [2] 1052).

5) Lakton d. α -Oxy- α -[4-Isopropylphenyl]- $\beta\delta$ -Diphenyl- $\alpha\gamma$ -Butadiënγ-Carbonsäure. Sm. 143° (A. 333, 249 C. 1904 [2] 1391).

6) Lakton d. α -Oxy- γ -Keto- β -Benzoyl- β -Phenyl- α -[4-Isopropyl-

phenyl]propan-y-Carbonsaure. Sm. 140° (A. 333, 240 C. 1904 [2]

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C26H22O4

1390).

7) isom. Lakton d. α-Oxy-γ-Keto-β-Benzoyl-β-Phenyl-α-[4-Isopropylphenyl|propan-γ-Carbonsäure. Sm. 126° (A. 333, 254 C. 1904 [2] 11) α -Diphenylmethyl- β -Diphenylmethylenhydrazin. Sm. 91° (J. pr. CaHaN [2] 67, 177 C. 1903 [1] 874). 12) 4,4'-Di[4-Methylphenyl]azobenzol. Sm. 260° (C. 1904 [1] 1491). *1) anti- $\alpha\beta$ -Di[Diphenylhydrazon]- $\alpha\beta$ -Diphenyläthan (B. 36, 62 C. 1903 C26H22N4 [1] 451). *3) $\alpha\beta$ -Di[Benzylidenamido]- $\alpha\beta$ -Diphenylhydrazin. Sm. 187—187,5° (179—181°) (B. 36, 84 C. 1903 [1] 452; G. 33 [2] 54 C. 1903 [2] 1057). Sm. 203-205° *4) Dehydrobenzalphenylhydrazon. (G. **33** [2] 55 C. 1903 [2] 1057). *9) 4,4'-Di[Phenylhydrazonmethyl]biphenyl. Sm. 274° (A. 332, 76 C. 1904 [2] 43). 2) 3,3'-Di[Phenylhydrazonmethyl]azobenzol. Sm. 255° (Bl. [3] 31, 453 $C_{26}H_{22}N_6$ C. 1904 [1] 1498). 3) 4,4'-Di[Phenylhydrazonmethyl]azobenzol. Sm. 278,5 ° (Bl. [3] 31, 454 C. 1904 [1] 1498). C 78,0 — H 6,0 — O 16,0 — M. G. 400. 1) 14,64-Dimethyläther d. 4-Keto-1-Oxy-2-Phenyl-1,6-Di[4-Oxy- $C_{28}H_{24}O_4$ phenyl]-1,2,3,4-Tetrahydrobenzol. Sm. 207° (Am. 31, 152 C. 1904 [1] 807). C26H24O5 C 75,0 — H 5,8 — O 19,2 — M. G. 416. 1) 3^3 , 3^4 -Dimethyläther-6-Aethyläther d. 6-Oxy-2-Phenyl-3-[3,4-Sm. 145—146° Dioxybenzyliden]-2, 3-Dihydro-1, 4-Benzpyron. (B. 37, 3170 C. 1904 [2] 1059).
7) 33,34,7,8-Tetramethyläther d. 7,8-Dioxy-2-Phenyl-3-[3,4-Dioxy-C26H24O6 benzyliden]-2,3-Dihydro-1,4-Benzpyron. Sm. 196° (B. 37, 3171 C. 1904 [2] 1059). C26H24O9 C 65,0 — H 5,0 — O 30,0 — M. G. 480. 1) Tetraacetat d. Ononetin. Sm. 119-120° (M. 24, 142 C. 1903 [1] 1033). C26H24N2 4) $\alpha\beta$ -Di[Diphenylmethyl]hydrazin. Sm. 133°. HCl (J. pr. [2] 67, 180 C. 1903 [1] 875). 5) Verbindung (aus 2-Methylindol u. 1-Methylbenzol-4-Carbonsäurealdehyd).
 Sm. 217—218° (B. 36, 4327 C. 1904 [1] 462). 5) Verbindung (aus C-Acetylphenylhydroresorcin). Sm. 176-180° (B. 37, $C_{26}H_{24}N_4$ 3383 C. 1904 [2] 1219). 2) 1,5-Diamido-2,4-Di[1-Amido-2-Naphtylamido]benzol. 4HCl (B. 37, C26H24N6 3889 C. 1904 [2] 1654). C 82,3 - H 6,6 - N 11,1 - M. G. 379. $C_{28}H_{25}N_{8}$ 1) α -Imido- α -[4-Dimethylamidophenyl]- α -[4-p-Methylphenylamido-1-Naphtyl]methan. Sm. 164—165°. HCl (B. 37, 1907 C. 1904 [2] 116). 3) Harz (aus Klebwachs). Sm. 66° (R. 22, 141 C. 1903 [2] 124). $C_{26}H_{26}O_8$ C 80,4 - H 7,2 - O 12,4 - M. G. 388.C26H28O3 1) Methylester d. 4-Oxy-2-Methyl-5-Isopropyltriphenylessigmethyläthersäure. Sm. 145—146° (B. 37, 669 C. 1904 [1] 953).
2) Methylester d. 4-Oxy-3-Methyl-6-Isopropyltriphenylessigmethylminessigmethylm äthersäure. Sm. 137—138° (B. 37, 670 C. 1904 [1] 953). $\mathbf{C_{26}H_{28}O_6}$ 2) bim. o-Cumarallyläthersäure. Sm. 236° (B. 37, 1385 C. 1904 [1] 1344). C26H28O10 C 62,4 - H 5,6 - O 32,0 - M. G. 500.1) Diacetat d. 1,2,3,5,6,7-Hexaoxy-9,10-Anthrachinontetraäthyläther. Sm. 230-235° (D.R.P. 151724 C. 1904 [1] 1587). $C_{26}\mathbf{H}_{30}O_{8}$ C 80,0 - H 7,7 - O 12,3 - M. G. 390.1) Methyläther d. αs -Diketo- $\alpha \beta \delta s$ -Tetraphenyl- γ -[4-Oxyphenyl]-pentan. Sm. 233—234° (B. 35, 3972 C. 1903 [1] 31). $C_{26}H_{30}O_4$ C 76.8 - H 7.4 - O 15.8 - M. G. 406.1) Menthylester d. β -Benzoxyl- α -Phenylakrylsäure. Fl. (Soc. 81, 1497 C. 1903 [1] 153).
4) Eudesmin. Sm. 99° (C. 1897 [1] 170). — *III, 497. $C_{28}H_{30}O_8$

5) Triäthylester d. Säure $C_{20}H_{18}O_8$. Sd. 195°_{12} (M. 24, 85 C. 1903 [1] 769).

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C 70.9 - H 7.3 - O 21.8 - M. G. 440.
C26H32O6
                   1) bim. o-Cumarpropyläthersäure. Sm. 254° (B. 37, 1385 C. 1904 [1]
                       1344).
                   2) bim. o-Cumarisopropyläthersäure. Sm. 264° (B. 37, 1385 C. 1904
                       [1] 1344).
                                   - H 7,0 - O 34,6 - M. G. 456.
C26H32O7
                       C 68,4 -
                   1) Monoäthyläther d. Dihydroflavaspidsäurexanthen. Sm. 236^{\circ}(A.329,
                       317 C. 1904 [1] 799).
                   2) Globulariasäure. Sm. 228—230° u. Zers. (Ar. 241, 294 C. 1903 [2] 514).
                       C 65.8 - H 7.2 - O 27.0 - M. G. 474.
C28H84O8
                    1) Dihydroflavaspidäthyläthersäure. Sm. 198—200° (A. 329, 319 C. 1904
                       C'82,1' - H 9,5 - O 8,4 - M. G. 380.
C_{26}H_{36}O_{2}
                    1) Benzoat d. Spongosterin. Sm. 128° (H. 41, 115 C. 1904 [1] 996).
                   2) Verbindung (aus Asclepias syriaca L.). Sm. 83-84° (J. pr. [2] 68, 413
C26H38O2
                        C. 1904 [1] 105).
C_{26}H_{40}O \\ C_{26}H_{40}O_2
                  *1) Ergosterin. Sm. 154° (M. 25, 542 C. 1904 [2] 909).
                  2) Acetat d. Alstol. Sm. 200° (B. 37, 4112 C. 1904 [2] 1656).
*1) Lupeol. Sm. 211-212° (213°) (H. 41, 474 C. 1904 [1] 1652; B. 37,
C26H42O
                  *1) Cholesterin. Oxalat (M. 24, 663 C. 1903 [2] 1236).

*1) Cholesterin. Oxalat (M. 24, 663 C. 1903 [2] 1236).

*5) Phytosterin. Sm. 132,5—133° (C. 1903 [2] 125; B. 36, 1053 C. 1903
C26H43Cl
C26H44O
                       [1] 1148).
                  11) Betasterin. Sm. 117° (B. 36, 975 C. 1903 [1] 1016).

12) Hefecholesterin + H<sub>2</sub>O. Sm. 159° (H. 38, 12 C. 1903 [1] 1429).

13) Alkohol + <sup>1</sup>/<sub>2</sub>H<sub>2</sub>O (aus Sesamöl) (G. 33 [2] 259 C. 1904 [1] 46).

14) Verbindung + H<sub>2</sub>O (aus Olivenöl). Sm. 134° (wasserfrei) (C. 1903 [1] 100)
                   2) Dilaurinat d. αβ-Dioxyäthan. Sm. 54°; Sd. 188°, (B. 36, 4340 C. 1904
C26H50O4
                       [1] 433).
                                                      - 26 III -
                       C 80.2 - H 3.9 - O 12.3 - N 3.6 - M. G. 389.
C26H15O8N
                                                                           Sm. oberh. 360° (B. 36, 1814
                    1) \beta-Naphtolonaphtophenoxazon.
                        C. 1903 [2] 207).
                   2) 1,5-Di[4-Nitrophenylamido]-9,10-Anthrachinon (C. 1903 [1] 722).
C 59,5 — H 3,0 — O 21,4 — N 16,0 — M. G. 524.
C_{26}H_{16}O_6N_4
C26H16O7N6
                    1) 5 - Nitro - 2 - [4 - Nitrophenyl] - 1 - [4 - p - Nitrobenzoylamidophenyl] - benzimidazol. Sm. 299-300° (B. 37, 1073 C. 1904 [1] 1273).
1) Sulfid d. 5-Merkaptoakridin. Sm. 267° (J. pr. [2] 68, 85 C. 1903
C_{26}H_{16}N_2S
                        [2] 446).
                    3) Hydrochinonphtaleïnanilid. Sm. 305° (B. 36, 2960 C. 1903 [2] 1006). C 71,7 — H 3,9 — O 14,7 — N 9,7 — M. G. 435. 1) 4-[4-Nitrophenyl]-3, 3'-Dioxy-2, 2'-Binaphtyl (C. r. 138, 1618)
\mathbf{C}_{26}\mathbf{H}_{17}\mathbf{O}_4\mathbf{N}
C_{26}H_{17}O_4N_3
                        C. 1904 [2] 338).
                    1) Aether d. 4, 4'-Dibrom-\alpha-Oxydiphenylmethan.
                                                                                                       Sm. 155—156°
C<sub>26</sub>H<sub>18</sub>OBr<sub>4</sub>
                        (Am. 30, 460 C. 1904 [1] 377).
C_{28}H_{18}O_2N_2 *5) 3,3'-Dibenzoylazobenzol. Sm. 154—155° (C. 1903 [2] 112).
                    7) 1,5-Di|Phenylamido]-9,10-Anthrachinon. Sm. 180-1906 (C. 1903
                        [1] 721).
                    8) \alpha\beta-Dibenzoyl-\alpha\beta-Diphenylhydrazin. Sm. 161—162° (C. r. 136, 1554)

    C. 1903 [2] 359).
    2) 2,4[oder 3,4]-Di[Phenylamido]-1-Oxy-9,10-Anthrachinon (D.R.P. 86150, 86539, 114199). — *III, 300.

 C_{26}H_{18}O_3N_2
                    3) 3,3'-Dibenzoylazoxybenzol. Sm. 127° (C. 1903 [2] 112).
2) Dibenzoat d. 3,3'-Dioxyazobenzol. Sm. 129° (J. pr. [2] 67, 267
 C_{26}H_{18}O_4N_2
                        C. 1903 [1] 1221).
C<sub>26</sub>H<sub>18</sub>O<sub>4</sub>N<sub>6</sub> *2) 3,6-Diphenyl-1,4-Di[4-Nitrophenyl]-1,4-Dihydro-1,2,4,5-Tetrazin, Sm. 305° (B. 36, 356 C. 1903 [1] 575).
                    1) Verbindung (aus 2,5-Dimerkapto-1,4-Diketohexahydrobenzoldibenzyläther). Sm. 119—121 (A. 336, 151 C. 1904 [2] 1300).
 C_{26}H_{18}O_4S_2
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7) α-Phenylimido-α-Phenylbenzoylamido-α-Phenylmethan. Sm. 171°

(Am. 30, 36 C. 1903 [2] 363).

 $C_{26}H_{20}ON_2$

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8) N-Benzyl-o-Methylchinophtalin. Sm. 208° (B. 36, 5919 C. 1904
C26H20N2
                     6) 3.3'-Di[Phenylimidomethyl]azoxybenzol. Sm. 125° (B. 36, 3471
C^{56}H^{50}ON^{4}
                         C. 1903 [2] 1269).
                   *3) 2,4'-Di[2-Oxybenzylidenamido]biphenyl. Sm. 151—152° (B. 36, 4090
C_{26}H_{20}O_2N_2
                         C. 1904 [1] 269).
                   *5) 4,4'-Di[Benzoylamido] biphenyl. Sm. 352° (B. 36, 137 C. 1903 [1] 507).
                   **50 Phtalyl-1-Methylindol (B. 37, 1225 C. 1904 [1] 1272). 12) 3,3'-Di[Benzoylamido] biphenyl (C. 1903 [2] 112). 13) Indophtalon. Sm. 212°. HCl, K (B. 37, 1221 C. 1904 [1] 1272). 5) Phenylhydrazon d. Verb. C_{20}H_{14}O_{5}. Sm. 232° (B. 36, 3233 C. 1903
 C_{26}H_{20}O_4N_2
                         [2] 941).
                   *1) Di-3-Nitrobenzaldiphenylhydrotetrazon.
 \mathbf{C}_{96}\mathbf{H}_{90}\mathbf{O}_{4}\mathbf{N}_{6}
                                                                                              Sm. 166° (B. 36, 94
                         C. 1903 [1] 453; G. 34 [2] 278 C. 1904 [2] 1387).
Dehydro-3-Nitrobenzalphenylhydrazon. Sm. 216-217° (B. 36, 95)

*2) Dehydro-3-Nitrobenzalphenylhydrazon. Sm. 216-217° (B. 36, 95 C. 1903 [1] 453; G. 34 [2] 279 C. 1904 [2] 1387).
*3) isom. Dehydro-3-Nitrobenzalphenylhydrazon. Sm. 265° (B. 36, 97

                         C. 1903 [1] 453; G. 34 [2] 280 C. 1904 [2] 1387).
                    5) \alpha-[Benzyliden]-\beta-[4-Nitrophenyl]-\beta-[\alpha-4-Nitrophenylhydrazonbenzyl]hydrazin. Sm. 238° (B. 36, 354 C. 1903 [1] 575). 6) 4,6-Dinitro-1,3-Di[1-Amido-2-Naphtylamido] benzol. Sm. 300°
                     (B. 37, 3888 C. 1904 [2] 1654).
7) isom. Verbindung (aus 3-Nitrobenzaldehydphenylhydrazon). Sm. 212 bis 213° (B. 36, 96 C. 1903 [1] 453).
                     1) Verbindung (aus Benzanilidchlorid u. Natriumthiobenzanilid). Sm. 202 bis 204° (C. 1904 [1] 1003).
 CasHanNaS
                   *1) 2,5-Diphenylimido-3,4-Diphenyltetrahydro-1,3,4-Thiodiazol. Sm.
 \mathbf{C}_{26}\mathbf{H}_{20}\mathbf{N}_4\mathbf{S}
                         135—136° (B. 36, 3131 C. 1903 [2] 1070).
                     3) 2-Oxy-1-[a-Cinnamylamidobenzyl]naphtalin. Sm. 1740 (G. 33 [1]
 C_{26}H_{21}ON
                    33 C. 1903 [1] 926).

4) \varepsilon-Keto-\varepsilon-[4-Cinnamylidenamidophenyl]-\alpha-Phenyl-\alpha\gamma-Pentadiën. Sm. 191° (B. 37, 394 C. 1904 [1] 657).

3) \alpha-Phenylimido-\alpha-[\beta-Benzoyl-\alpha-Phenylhydrazido]-\alpha-Phenylmethan. Sm. 136° (Am. 31, 583 C. 1904 [2] 109).
 CoaHaONa

4) α-Nitroso-α-Diphenylmethyl-α-Diphenylmethylenhydrazin. Sm. 80 bis 81° u. Zers. (J. pr. [2] 67, 178 C. 1903 [1] 874).
5) 3'-Amido-2'-Methyl-9-[4-Amidophenyl]-1,2-Naphtakridin. Sm. 313°.

                         HCl, HNO_3 (C. 1903 [1] 883).
                     5) Methyläther d. α-Phenylazo-4-Oxytriphenylmethan. Sm. 115° (B. 36.
 C_{26}H_{22}ON_2
                         2790 C. 1903 [2] 882).
                     6) Methyläther d. \alpha-[2-Oxyphenyl]imido-\alpha-Diphenylamido-\alpha-Phenylmethan. Pikrat (B. 37, 2684 C. 1904 [2] 521).
                     2) 3,3'-Di[Phenylhydrazonmethyl]azoxybenzol.
 C26 H22 ON6
                                                                                                  Sm. 198° (Am. 28.
                         480 C. 1903 [1] 328; B. 36, 3471 C. 1903 [2] 1269).
                     9) 3,4-Methylenäther d. \alpha-[3,4-Dioxyphenyl]-\alpha\alpha-Di[2-Methyl-3-Indolyl]methan. Sm. 213° (B. 36, 4329 C. 1904 [1] 463; B. 37, 323
 C26H22O2N2
                          C. 1904 [1] 668).
 C_{26}H_{22}O_2N_4
                     6) Monoäthyläther d. 4,4'-Di[4-Oxyphenylazo]biphenyl. Sm. 2720
                         (B. 36, 2974 C. 1903 [2] 1031).
                     3) Anhydrophenylhydrazondiphenylketoktolaktonsäure. (A. 334, 137 C. 1904 [2] 890).
 C_{26}H_{22}O_3N_2
                                                                                                                          50°

    Methyläther d. α-Phenylsulfon-4-Oxytriphenylmethan. Sm. 165 bis 166° (B. 36, 2791 C. 1903 [2] 882).

 C_{28}H_{22}O_8S
 C26H22O5N2
                     4) Phenylhydrazon d. Verb. C<sub>20</sub>H<sub>16</sub>O<sub>8</sub>. Sm. 241° (B. 36, 3232 C. 1903
                          2] 941).
C_{26}H_{22}O_6S_2
                     1) Di[4-Methylbenzolsulfonat] d. 2, 2'-Dioxybiphenyl. Sm. 171° (4. 332,
                         63 C. 1904 [2] 42).
C_{26}\mathbf{H}_{22}\mathbf{N}_{2}Cl_{2}
                    2) 1,3-Xylylendiehinoliniumchlorid. 2 + PtCl_4 (B. 36, 1680 C. 1903
                    [2] 29). 1) 1,3-Xylylendichinoliniumbromid. Sm. 276° u. Zers. + Br<sub>4</sub> (B. 36,
\mathbf{C}_{26}\mathbf{H}_{22}\mathbf{N}_{2}\mathbf{Br}_{2}
                         1680 C. 1903 [2] 29).
                     2) 1,4-Xylylendichinoliniumbromid. Sm. 306°. + Br<sub>4</sub> (B. 34, 2090).
                     1) 2,4'-Di[β-Phenylthioureïdo] biphenyl. Sm. 164° (B. 36, 4093 C. 1904
C26H22N4S.
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- $C_{26}H_{23}ON$ 2) Methyläther d. α-Oxy-4-Phenylamidotriphenylmethan. Sm. 127° (B. 37, 612 C. 1904 [1] 888).
 - 3) Methyläther d. α-Phenylamido-4-Oxytriphenylmethan. Sm. 138 bis 139° (B. 37, 608 C. 1904 [1] 887).
- $C_{26}H_{23}ON_3$ 2) α -Nitroso- $\alpha\beta$ -Di[Diphenylmethyl]hydrazin. Sm. 135° u. Zers. (J. pr. [2] **67**, 186 *C*. 1903 [1] 875).
 - 3) Leukobase d. 3'-Amido-2'-Methyl-9-[4-Acetylamidophenyl]-1,2-Naphtakridin (C. 1903 [1] 883).
- $\mathbf{C}_{26}\mathbf{H}_{24}\mathbf{ON}_{2}$ 3) 4 - Dimethylamidophenyl - 4 - [4 - Methylphenyl] amido - 1 - Naphtylketon. Sm. 219° (221°) (D.R.P. 79390; B. 37, 1902 C. 1904 [2] 115). - *III, 195.
 - 4) 4-Dimethylamidophenyl -?-[4-Methylphenyl]amidonaphtylketon.
 - Sm. 121° (C. 1903 [1] 87).

 5) Verbindung (aus 2-Methylindol u. 4-Methoxylbenzaldehyd). Sm. 211 bis 212° (B. 36, 4328 C. 1904 [1] 462).
- 8) 1,3-Xylylendichinoliniumhydroxyd. 2 Chlorid + PtCl₄, 2 Bromid $C_{26}H_{24}O_2N_2$ + Br₄, 2 Pikrat (B. 36, 1680 C. 1903 [2] 29).
- 2) Diäthylester d. αδ-Di [Phtalylamido] butan αα Dicarbonsäure. Sm. 125° (C. 1903 [2] 34).
 C 59,5 H 4,6 O 30,5 N 5,3 M. G. 524. $C_{26}H_{24}O_8N_2$
- $C_{26}H_{24}O_{10}N_2$ 1) Diäthylester d. Oxalyldi [4-Amidobenzoylbrenztraubensäure]. Sm.
- 151° (B. 36, 2699 C. 1903 [2] 952).
 2) Triäthyläther d. Hydrochinonphtaleïn α Oxim. Sm. 158—159° (B. 36, 2962 C. 1903 [2] 1006).
 2) Salicylat d. Cinchonidin. Sm. 65—70° (D. R. R. 137207 C. 1903 [1] 110). $C_{26}H_{25}O_5N$
- $C_{26}H_{26}O_3N_2$ *1) 1,4-Di[2,5-Diacetyldiamidophenyl]-1,4-Azophenylen (B. 37, 2908 $\mathbf{C}_{26}\mathbf{H}_{26}\mathbf{O}_4\mathbf{N}_6$ C. 1904 [2] 1458).
- 2) Diäthylester d. 1 Dibenzoylamido 2,5 Dimethylpyrrol 3,4 Di- $C_{26}H_{26}O_6N_2$ carbonsäure. Sm. 132—133 6 (B. 35, 4315 C. 1903 [1] 336). C 59,8 — H 5,0 — O 24,5 — N 10,7 — M. G. 522. $C_{26}H_{26}O_8N_4$
- 1) Diäthylester d. Dibenzoylbisdiazoacetessigsäure. Sm. 150° (G. 34 [1] 191 C. 1904 [1] 1333).
- 5) Triäthyläther d. Phenolphtaleinoxim. Sm. 142-143° (B. 36, 2966 $\mathbf{C}_{26}\mathbf{H}_{27}\mathbf{O}_4\mathbf{N}$ $C_{28}H_{27}O_7N_3$
- C. 1903 [2] 1007).
 C 63,3 H 5,5 O 22,7 N 8,5 M. G. 493.
 1) Salipyrinorthoform. Sm. 76° (A. 325, 318 C. 1903 [1] 770).
 2) isom. Salipyrinorthoform. Sm. 75—77° (A. 325, 319 C. 1903 [1]
- 770). C 75,0 — H 6,7 — O 11,5 — N 6,7 — M. G. 416. 1) α ,2-Laktond.4',4"-Di[Dimethylamido]- α ,4-Dioxytriphenylmethan- $C_{26}H_{28}O_3N_2$
- 4-Aethyläther-2-Carbonsäure. Sm. 167-168° (A. 329, 76 C. 1903 [2] 1440). 1) ε -Keto- $\alpha \gamma$ -Dibenzylsulfon- α -Phenylhexan. Sm. 205° (B. 37, 509) C25H28O5S2
- C. 1904 [1] 884). $C_{26}H_{29}O_2N_8$
 - 4) Aethyläther d. 5-Oxy-3-Keto-1,1-Di[4-Dimethylamidophenyl]-2,3-Dihydropseudoisoindol. Sm. 242—244° (Δ. 329, 77 C. 1903 [2] 1440).
 5) Inn. Anhydrid d. α-Oxy-4',4"-Di[Dimethylamido]triphenylmethan-2-Amidoameisensäureäthylester. Sm. 172—174° (B. 36, 2786 C. 1903
- [2] 881).

 2) 4',4"-Di[Dimethylamido]-4-Oxytriphenylmethan-4-Aethyläther-2-Carbonsäure. Sm. 197—198° (A. 329, 73 C. 1903 [2] 1440).

 1) \$\beta\beta\beta\beta\beta\text{Tribenzylsulfonpentan.}\$ Sm. 187—188° (B. 37, 505 C. 1904 [1] $C_{26}H_{30}O_3N_2$
- $C_{26}H_{30}O_6S_3$
- $C_{26}H_{31}O_{2}N_{3}$ 2) Aethylester d. 4', 4"-Di[Dimethylamido]triphenylmethan-2-Amidoameisensäure. Sm. 131-1320 (u. 1490) (B. 36, 2785 C. 1903 [2] 881).
 - Amid d. 4',4"-Di[Dimethylamido]-4-Oxytriphenylmethan-4-Aethyläther-2-Carbonsäure. Sm. 191—192° (A. 329, 74 C. 1903 [2] 1440).
 1-Menthylester d. β-Phenylamidoformoxyl-α-Phenylakrylsäure. Sm. 235—237° (Soc. 81, 1498 C. 1903 [1] 153). *III, 335.
 C. 50.5
 H. 6.1
 O. 192
 N. 16.0
 M. C. 524
- $C_{26}H_{31}O_4N$ C 59,5 - H 6,1 - O 18,3 - N 16,0 - M. G. 524. $C_{26}H_{32}O_6N_6$
- 1) s-Di[β -Benzoylamidoacetylamidobutyryl]hydrazin. Sm. 264° (J. pr.
- [2] 70, 210 C. 1904 [2] 1460). 2) Tetraäthylester d. Biphenyl-4, 4'-Di[Amidomalonsäure]. Sm. 138° $C_{26}H_{32}O_8N_2$ (C. 1903, [1] 35).

*3) Methyläther d. α-Oxytri[4-Dimethylamidophenyl]methan. Sm. 159 bis 160° (B. 37, 2875 C. 1904 [2] 778). C 64,0 — H 6,8 — O 26,3 — N 2,9 — M. G. 487. $C_{26}H_{33}ON_3$ $C_{28}H_{33}O_8N$ 1) Homonarceinäthylester. HCl (D.R.P. 71797). - $C_{26}H_{84}O_{2}N_{4}$

C 71,9 — H 7,8 — O 7,4 — N 12,9 — M. G. 434.

1) Menthylester d. 4 - Methylphenylazo - 4 - Methylphenylhydrazonessigsäure. Sm. 134—136° (Soc. 83, 1125 C. 1903 [2] 24, 791). C 73,6 — H 8,5 — O 11,3 — N 6,6 — M. G. 424. 1) Dipropylderivat d. Yohimboasäure. Sm. 135—136° (B. 37, 1764) $C_{26}H_{36}O_3N_2$

C. 1904 [1] 1527).

2) Diäthyläther d. N-Acetyldi[4-Oxy-2-Methyl-5-Isopropylphenyl]-C26H37O3N amin. Sm. 89—90° (B. **36**, 2888 C. **1903** [2] 875). C 81,5 — H 10.7 — O 4,2 — N 3,6 — M. G. 383. $C_{26}H_{41}ON$

1) Verbindung (aus Lupeol) oder C₂₇H₄₁ON. Sm. 226° (B. 37, 4108 C. 1904 [2] 1655).

 C_{28} \mathbf{H}_{42} OBr_{2} 1) Lupeoldibromid. Sm. 154° (B. 37, 4107 C. 1904 [2] 1655). *1) Glykocholsäure (C. 1903 [2] 1242).

 $C_{26}H_{48}O_6N$ $\textbf{C}_{\textbf{96}}\textbf{H}_{\textbf{50}}\textbf{N}_{\textbf{2}}\textbf{Cl}_{\textbf{2}} \hspace{0.2cm} \textbf{2)} \hspace{0.2cm} \textbf{Di}[\textbf{Chlormethylat}] \hspace{0.2cm} \textbf{d.1,3-Di}[\textbf{Dipropylamidomethyl}] \hspace{0.2cm} \textbf{benzol.} \hspace{0.2cm} \textbf{2} + PtCl_{\textbf{4}}$ (B. 36, 1678 C. 1903 [2] 29).

C₃₈H₅₀N₂Br₂ 2) Di[Brompropylat] d. 1,3-Di[Dipropylamidomethyl] benzol. Sm. 226°. + Br_4 (B. 36, 1677 C. 1903 [2] 29). 2) Di[Propyloxydhydrat] d. 1,3 - Di[Dipropylamidomethyl]benzol.

 $C_{26}H_{52}O_2N_2$ 2 Chlorid + PtCl₄, Bromid, Pikrat (B. 36, 1678 C. 1903 [2] 29).

- 26 IV -

C₂₆H₁₆O₃NCl 1) 6 - Chlor - 3 - Phenylamidofluoran. Sm. 211° (D.R.P. 85885), — * III. *574*.

1) Diphenylester d. cis- $\alpha\beta$ -Di[4-Nitrophenyl| \ddot{a} than-2, 2'-Disulfon-C26H18O10N2S2 säure. Sm. 172° (Soc. 85, 1434 C. 1904 [2] 1740).

2) Diphenylester d. trans-αβ-Di[4-Nitrophenyl]äthen-2,2'-Disulfonsäure. Sm. 192—192,5° (Soc. 85, 1434 C. 1904 [2] 1740). 1) 9-Diphenylsulfonamidophenanthren. Sm. 263—264° (B. 36, 2516

 $C_{26}H_{19}O_4NS_3$ C. 1903 [2] 507).

 $C_{26}H_{20}O_2N_2Cl_4$ 1) $\alpha\beta$ -Di[Phenylamido] - $\alpha\beta$ - Di[3,5-Dichlor-4-Oxyphenyl]äthan. Sm. 158° u. Zers. (A. 325, 64 C. 1903 [1] 462).

1) Disulfid d. Diphenylamidothiolameisensäure. Sm. 195-1960 C₂₆H₂₀O₂N₂S₂ (B. 36, 2273 C. 1903 [2] 563).

 $C_{26}H_{21}O_5N_8S$ 1) Phenylamid d. α-Phenylsulfon-α-[4-Benzoxylphenyl]hydrazinβ-Carbonsäure. Sm. 140° (A. 334, 189 C. 1904 [2] 835).
1) Di[2-Naphtylsulfon]histidin. Sm. 149—150° (H. 42, 516 C. 1904

 $\mathbf{C}_{26}\mathbf{H}_{21}\mathbf{O}_{6}\mathbf{N}_{8}\mathbf{S}_{2}$ [2] 1290).

 $C_{26}H_{22}O_3N_2Cl_4$ 1) 3-Dimethylamido-6-Diäthylamido-93,94,95,96-Tetrachlorfluoran. HCl (Bl. [3] 25, 747). — *III, 576.

1) Aethyläther d. 5-Jod-3-Merkapto-1, 5-Diphenyl-4-[1-Naphtyl]-

 $C_{26}H_{29}N_8JS$ 4,5-Dihydro-1,2,4-Triazol. Sm. 278° (J. pr. [2] 67, 245 C. 1903

2) Aethyläther d. 5-Jod-3-Merkapto-1,5-Diphenyl-4-[2-Naphtyl]-4,5-Dihydro-1,2,4-Triazol. Sm. 208° (J. pr. [2] 67, 245 C. 1903 [1] 1264).

C26H23O4N2Br3 1) Acetat d. 2,5,6-Tribrom-4-Oxy-1,3-Di[Acetylphenylamido-methyl]benzol. Sm. 145° (B. 37, 3907 C. 1904 [2] 1592).

 Phenylhydrazid d. α-[1-Naphtylthiosulfon]-β-Phenylhydrazon-buttersäure. Sm. 139—140° (J. pr. [2] 70, 385 C. 1904 [2] 1720). C26H24O8N4S 2) Phenylhydrazid d. α-[2-Naphtylthiosulfon]-β-Phenylhydrazon-

buttersaure. Sm. 156—157° (J. pr. [2] 70, 385 C. 1904 [2] 1720).
*1) 4, 4'-Di [Methylphenylsulfonamido] biphenyl. Sm. 189—190° $C_{26}H_{24}O_4N_2S_2$ (B. 37, 3772 Anm. C. 1904 [2] 1547).

3) Di[Methylphenylamid] d. Biphenyl-4,4'-Disulfonsäure. Sm. 187° (A. 332, 59 C. 1904 [2] 41).

4) 4,4'-Di[4-Methylphenylsulfonamido]biphenyl. Sm. 243° (B. 37, 3772 C. 1904 [2] 1547).

C26H24O8N2S4 1) Di[2-Naphtylsulfon]eystin. Sm. 214° (H. 38, 558 C. 1903 [2] 390). $C_{26}H_{24}O_8N_4S_2$ 1) Säure (aus Diamingoldgelb). Na₂ (B. 36, 2977 C. 1903 |2| 1031).

- $C_{26}H_{25}O_8N_0Br_8$ 1) 1,3-Diacetylderivat d. 2,5,6-Tribrom-4-Oxy-1,3-Di[4-Methylphenylamidomethyl]benzol. Sm. unter 100° (B. 37, 3911 C. 1904 [2] 1593).
 - 2) 3,4-Diacetylderivat d. 2,5,6-Tribrom-4-Oxy-1,3-Di[2-Methylphenylamidomethyl]benzol. Sm. 1930 (B. 37, 3912 C. 1904 [2]
 - 3) 3,4-Diacetylderivat d. 2,5,6-Tribrom-4-Oxy-1,8-Di[4-Methylphenylamidomethyl]benzol. Sm. 187—188° (B. 37, 3911 C. 1904 [2] 1593).
- 1) P-Dichlor-1-[P-Dimethylamido-P-Oxybenzoyl] 2 [P-Diäthyl- $\mathbf{C}_{26}\mathbf{H}_{26}\mathbf{O}_4\mathbf{N}_2\mathbf{Cl}_2$ amido-3-Oxybenzoyl]benzol (Bl. [3] 29, 61 C. 1903 [1] 456).

 1) Laurotetaninphenylthioharnstoff. Sm. 211—212° (Ar. 236, 616).
- $C_{26}H_{28}O_5N_2S$ - *III, *661*.
- 1) Di[Jodmethylat] d. Piperidomethylmorphimethin (B. 36, 1594 $C_{26}H_{88}O_2N_2J_2$ C. 1903 [2] 54).
- C28H45O7NS *1) Taurocholsäure + H_2O . Zers. bei 100° (H. 43, 127).

26 V

C26H19O8NBrP 1) 3-Bromphenylmonamid d. Phosphorsäuredi[2-Naphtylester]. Sm. 166,5° (A. 326, 234 C. 1903 [1] 867).

C₂₇-Gruppe.

*4) α -Cholesteron. Sm. 79° (M. 24, 666 C. 1903 [2] 1236). 6) isom. Cholesterilen. Sd. 280-300° $_{55}$ (M. 24, 661 C. 1903 [2] 1236). 2) Verbindung (aus Guttapercha). Sd. 320-360° $_{20}$ (C. 1903 [1] 83). C27 H42 C27 H46

- 27 II -

C 67,5 — H 2,5 — O 30,0 — M. G. 480. C27 H12 O9

1) Tridioxybenzoylenbenzol (B. 33, 2440, 3085). — *III, 245. C27H16O3

C 83,5 — H 4,1 — O 12,4 — M. G. 388.

1) Cinnamylidenbiindon. Sm. 243° (B. 34, 3270). — *III, 245.

*1) 9-Phenyl-1,2,1',2'-Dinaphtoakridin. Sm. 297° (B. 36, 592 C. 1903 [1] 724; B. 36, 1030 C. 1903 [1] 1269).

2) 9-Phenyl-1,2,2',1'-Dinaphtakridin. Sm. 254°. HBr, HNO₃ (B. 36, 1031 C. 1002) [1] 1270). $C_{27}H_{17}N$

C27H18O

1031 C. 1903 [1] 1270).
*1) Anhydrid d. Phenyldi[2-Oxynaphtyl]methan. Sm. 190—191° (G. 33 [1] 26 C. 1903 [1] 926; Soc. 85, 793 C. 1904 [2] 227, 529).
3) Verbindung (aus 4-Oxyhenzaldehyd u. β-Naphtol). (Phenyloldinaphtopyran). Sm. 207° (C. r. 137, 859 C. 1904 [1] 103).
C 90,8 — H 5,3 — N 3,9 — M. G. 357.
1) Phenyldingland 1 2 1 2 2 Dinaphtakridin. Sm. 280° (B. 36, 591). $C_{27}H_{18}O_2$ $C_{27}H_{19}N$

1) 9-Phenyldihydro-1, 2, 1', 2'-Dinaphtakridin. Sm. 230° (B. 36, 591 C. 1903 [1] 724; B. 36, 1029 C. 1903 [1] 1270).
 2) 9-Phenyldihydro-1, 2, 2', 1'-Dinaphtakridin. Sm. 240° (B. 36, 1030 C. 1009) [th 1970].

C. 1903 [1] 1270).

3) Säure (aus α-Oxydiphenylessigsäure). Ag (B. 29, 740). — *II, 993. C27H2008 C 64,3 - H 4,0 - O 31,7 - M. G. 504. $C_{27}H_{20}O_{10}$

1) Tetraacetat d. 2,3,7-Trioxy-9-[2-Oxyphenyl]fluoron. Sm. 223 bis 224° (B. 37, 2734 C. 1904 [2] 542).
2) Tetraacetat d. 2,3,7-Trioxy-2-[4-Oxyphenyl]fluoron. Sm. 242 bis 243° (B. 37, 2734 C. 1904 [2] 542).

 Monomethyläther d. 9,10-Dioxy-9,10-Diphenyl-9,10-Dihydro-anthracen. Sm. 274° (C. r. 138, 1252 C. 1904 [2] 118).
 Acetat d. 4-Oxytetraphenylmethan. Sm. 175° (B. 37, 661 C. 1904) C27 H22 O2

1 952). C 82,2 — H 5,6 — O 12,2 — M. G. 394.

 $C_{27}H_{22}O_3$ 1) 4-Keto-1-Acetyl-3-Benzoyl-2,6-Diphenyl-1,2,3,4-Tetrahydrobenzol. Sm. 183° (B. 36, 2132 C. 1903 [2] 366).

2) Anhydrid d. $\alpha\alpha$ -Diphenyl- δ -[4-Isopropylphenyl]- $\alpha\gamma$ -Butadiën- $\beta\gamma$ -Dicarbonsäure. Sm. 139—140° (B. 37, 2662 C. 1904 [2] 523).

3) 5-Acetat d. 5-Oxy-1,2-Diphenyl-3-[4-Oxyphenyl] benzol-3⁴-Methyl-äther. Sm. 141—142° (*Am.* 31, 147 *C.* 1904 [1] 806). C 89,7 — H 6,4 — N 3,9 — M. G. 361. C., H., O. C., H., N 1) 9-Phenyl-9-[4-Dimethylamidophenyl] fluoren. Sm. 141,5° (B. 37, 76 C. 1904 [1] 519). 2) 9-[4-Methylamido-3-Methylphenyl]-9-Phenylfluoren. Sm. 190,5°. HCl (B. 37, 77 C. 1904 [1] 519). 2) α-Oxy-ααγγ-Tetraphenylpropan. Sm. 95-96° (Am. 31, 651 C. 1904 CogHo,O [2] 446). 3) 5-Oxy-1, 2-Diphenyl-3-[4-Isopropylphenyl] benzol. Sm. 155° (Am. 31, 146 C. 1904 [1] 806). C 78,6 — H 5,8 — O 15,5 — M. G. 412. Co, Ho, O, 1) lab. γ_{ε} -Dibenzoyl- β_{ζ} -Diketo- δ -Phenylheptan. Sm. 121° (B. 36, 2131 C. 1903 [2] 366). 2) stab. $_{\%}$ -Dibenzoyl- $\beta\zeta$ -Diketo- δ -Phenylheptan. Sm. 195° (B. 36, 2131 O. 1903 [2] 366). 3) $\alpha\alpha$ -Diphenyl- δ -[4-Isopropylphenyl]- $\alpha\gamma$ -Butadiën- $\beta\gamma$ Dicarbonsäure. Sm. 229° u. Zers. Na₂ + 3 H₂O (B. 37, 2661 C. 1904 [2] 523). 2) Tribenzoat d. Chitose. Sm. 116° (B. 35, 4022 C. 1903 [1] 391).
C 58,3 — H 4,3 — O 37,4 — M. G. 556.
1) Alectorinsäure + 2H₂O. Sm. 220° wasserfrei (J. pr. [2] 68, 17 C. 1903 $C_{27}H_{24}O_{9}$ C27 H24 O18 [2] 511). 6) γ-Phenylhydrazon-ααγ-Triphenylpropan. Sm. 137° (Am. 31, 650 Co, Ho, No C. 1904 [2] 446). 7) Verbindung (aus 2-Methylindol u. Zimmtaldehyd). Sm. 206° (B. 36, 4329 C. 1904 [1] 462). C 84,8 — H 6,8 — O 8,4 — M. G. 382. C27H26O2 1) 1-Oxy-4-Keto-1, 6-Diphenyl-2-[4-Isopropylphenyl]-1, 2, 3, 4-Tetra-hydrobenzol. Sm. 231° (Am. 31, 144 C. 1904 [1] 806). C27 H26 O6 *3) Tribenzyliden-d-Mannit. Sm. 213-214° (B. 37, 299 C. 1904 [1] 647). C27 H29 N 3) Di[4-Dimethylamidophenyl]-4-Amido-l-Naphtylmethan. Sm. 221 bis 222° (C. 1903 [1] 87; B. 37, 1908 C. 1904 [2] 115). C 59,3 — H 5,5 — O 35,2 — M. G. 546. $C_{97}H_{90}O_{12}$ 1) Verbindung (aus Lariciresinol). Sm. 140—141° (M. 24, 210 C. 1903 [2] 38). 2) Oxyapinmethyläther (B. 33, 2337; A. 318, 136). — *III, 431. C 53,1 — H 4,9 — O 42,0 — M. G. 610.

1) Globulariacitrin. Sm. 190° u. Zers. (Ar. 241, 297 C. 1903 [2] 515).

2) Rutin + 2H₂O (Sophorin). Sm. 188—190° (Ar. 242, 212 C. 1904 [1] 1651; Ar. 242, 255 C. 1904 [1] 1651; Ar. 242, 547 C. 1904 [2] 1405; C27H80O15 C27H30O16 Ar. 242, 556 C. 1904 [2] 1405). C 79.0 — H 7,3 — N 13,7 — M. G. 410. C27 H30 N4 1) Di[4-Dimethylamidophenyl]-3,4-Diamido-1-Naphtylmethan. Sm. 233-234° (C. 1903 [1] 88; B. 37, 1909 C. 1904 [2] 115). C27 H30 N6 C 74,0 — H 6.8 — N 19.2 — M. G. 438. 1) 2,4,6-Tri[4-Dimethylamidophenyl]-1,3,5-Triazin. Sm. 357 (B. 37. 1738 *C.* **1904** [1] 1599). C 87,1 — H 8,6 — O.4,3 — M. G. 372. C27H32O 1) 3-Keto - 2, 4 - Di [4 - Isopropylphenyl] -1-Methylhexahydrobenzol. Sd. 300°₁₀ (C. r. 136, 116). C 75,9 — H 7,7 — N 16,4 — M. G. 427. l) 4, 4', 4"-Tri [Dimethylamido] hydrobenzamid. Pikrat (B. 37, 1736 C. 1904 [1] 1598). C 74,0 — H 7,8 — O 18,2 — M. G. 438. $\mathbf{C_{27}H_{33}N_5}$ Sm. 193°. C27 H34 O5 1) Anhydrostrophantidinsäurelakton + 1/2 H2O. Sm. 3450 (B. 31, 539; 33, 2085). — *III, 477. 2) Diacetat d. Lariciresinoldiäthyläther. Sm. 113° (M. 23, 1024 C. 1903 C27 H34 O8 1] 288). C27 H36 O3 C 79,4 — H 8,8 — O 11,8 — M. G. 408. 1) α - Oxy- α -Phenyl- $\alpha\alpha$ -Dicamphorylmethan. Sm. 155—156° (B. 36, 2640 C. 1903 [2] 627). C27 H40 O2 *1) Oxycholestenon (C. 1903 [1] 815). 3) Careleresen. Sm. 75-77° (Ar. 241, 156 C. 1903 [1] 1029).

C 75,7 — H 9,3 — O 15,0 — M. G. 428. C27H40O4

1) Anhydrid d. Säure $C_{27}H_{42}O_5$ (aus Cholestanonol). Sm. 172° (B. 36, 3758 C. 1903 [2] 1418).

*1) a-Oxycholestenol (C. 1903 [1] 815). C27H42O2

3) Cholestandion. Sm. 169° (B. 36, 3755 C. 1903 [2] 1418; B. 37, 2027 C. 1904 [2] 184).

*1) Oxycholestendiol (C. 1903 [1 | 815). $C_{27}H_{42}O_3$ C 75,3 - H 9,8 - O 14,9 - M. G. 430. $C_{27}H_{42}O_4$

1) Anhydrid d. Säure C₂₇H₄₄O₅. Sm. 212° (B. 37, 3705 C. 1904 [2] 1699).

 $C_{27}H_{42}O_5$ Säure (aus Cholestanonol oder Cholestandion). Sm. 217—219°. Mg
 (B. 36, 3756 C. 1903 [2] 1418).

3) isom. Säure (aus d. Säure $C_{27}H_{44}O_5$). Sm. 255° (B. 37, 3706 C. 1904 [2] 1699).

C 65,6 — H 8,5 — O 25,9 — M. G. 494. $C_{27}H_{42}O_8$

1) Säure (aus der Säure $C_{27}H_{44}O_5$). Sm. 174° (B. 37, 3707 C. 1904 [2] 1699).

C27 H44O

4) Cholestenon. Sm. 78° (B. 37, 3099 C. 1904 [2] 1535). 5) Euphorbon. Sm. 113—114° (Ar. 241, 227 C. 1903 [2] 119). C 81,0 — H 11,0 — O 8,0 — M. G. 400. $\mathbf{C}_{27}\mathbf{H}_{44}\mathbf{O}_{2}$

Cholestanonol. Sm. 142-143° (140°) (C. 1903 [1] 814; B. 36, 3754 C. 1903 [2] 1417; M. 24, 654 C. 1903 [2] 1235).
 Säure (aus Cholestandion). Sm. 185-217°. Na (B. 37, 2029 C. 1904

C27H44O4 [2] 184).

[2] 184).

3) Säure (aus Cholesterin). Sm. 297° (corr.). Ag₂ (B. 36, 3179 C. 1903 [2] 935; B. 37, 3096 C. 1904 [2] 1534).

C 72,3 — H,9,8 — O 17,9 — M. G. 448.

1) Säure + H₂O (aus d. Säure C₂₇H₄₃O₄Cl). Sm. 239—240° wasserfrei (B. 37, 3705 C. 1904 [2] 1699).

*1) Cholesterin (C. 1903 [1] 918, 980).

C 80,2 — H 11,9 — O 7,9 — M. G. 404.

1) Casimirol. Sm. 207° (4x. 241 173 C. 1903 [2] 1250

C27 H44O5

 $C_{27}H_{46}O$ C27H48O2

1) Casimirol. Sm. 207 ° (Ar. 241, 173 C. 1903 [2] 125). C 73,6 — H 11,8 — O 14,6 — M. G. 440.

C27 H52 O4 1) Acetylcerebronsäure. Na (H. 43, 27 C. 1904 [2] 1550).

- 27 III -

C 75,0 — H 3,7 — O 14,8 — N 6,5 — M. G. 432. 1) Benzoat d. Oxydiphenylbenzbisoxazol. Sm. $C_{27}H_{18}O_4N_2$ Sm. 291° (B. 37, 122 C. 1904 [1] 586).

C 72,3 - H 3,6 - O 17,9 - N 6,2 - M. G. 448. $C_{27}H_{16}O_5N_2$ 1) Anhydrid d. ?-Dinitrophenyldi[2-Oxynaphtyl]methan. Sm. 252 bis 253° u. Zers. (Soc. 85, 794 C. 1904 [2] 227, 529).

C 56.6 - H 2.8 - O 30.8 - N 9.8 - M. G. 572. $C_{27}H_{16}O_{11}N_4$ 1) Di[2-Nitrobenzoat] d. 4-[2-Nitrobenzoyl]amido-I, 3-Dioxybenzol.

Sm. 128° (B. 35, 4204 C. 1903 [1] 146).

2) Di[3-Nitrobenzoat] d. 4-[3-Nitrobenzoyl]amido-1,3-Dioxybenzol.
Sm. 231° (B. 35, 4203 C. 1903 [1] 146).

3) Di[4-Nitrobenzoat] d. 4-[4-Nitrobenzoyl]amido-1, 3-Dioxybenzol. Sm. 266° (B. 35, 4203 C. 1903 [1] 146).

C 74,5 - H 3,9' - O 18,4 - N 3,2 - M. G. 435.C27H17O5N 1) Dibenzoat d. 5,6-Dioxy-I-Phenylbenzoxazol. Sm. 144° (B. 37, 118 C. 1904 [1] 586).

2) ms-[3-Nitrophenyl|dihydro- β -Naphtakridin. Sm. 270° (B. 36, 593) $C_{27}H_{18}O_2N_2$ C. 1903 [1] 724).

3) ms-[4-Nitrophenyl]dihydro- β -Naphtakridin. Sm. 291° (B. 36, 592) C. 1903 [1] 724). C 74,1 — H 4,3 — O 18,3 — N 3,2 — M. G. 437. Dibenzoat d. 4-Benzoylamido-1,3-Dioxybenzol. Sm. 172° (B. 35,

C27H19O5N 4200 C. 1903 [1] 146).

2) Phenylhydrazon d. 9-Keto-4-[4-Methylbenzoyl]fluoren. Zers. bei 82° (M. 25, 983 C. 1904 [2] 1653). 3) N-Benzyl-α'-Phenylpyrophtalin. Sm. 211° (B. 36, 3923 C. 1904

[1] 98).

C₂₇H₂₀ON₂

1) 3-Benzoylphenylamido-1,5-Diphenyl-1,2,4-Triazol. Sm. 148-1490

C 77,9 — H 4,8 — O 3,8 — N 13,5 — M. G. 416.

 $C_{27}H_{20}ON_4$

C27 H28 O6 N

(Am. 29, 80 C. 1903 [1] 523). Verbindung (aus Benzilsäure u. Phenylisocyanat). Sm. 181° (*Bl.* [3] 29, 128 *C.* 1903 [1] 564). C27H20O2N2 Benzoat d. α-Benzoyl-α-Phenyl-β-[2-Oxybenzyliden]hydrazin. Sm. 170—171° (B. 37, 3938 C. 1904 [2] 1596).
 Benzoat d. 3,4-Di[Benzoylamido]-1-Oxybenzol. Sm. 220—222° (225°) (B. 36, 4117 C. 1904 [1] 272; B. 36, 4125 C. 1904 [1] 273).
 Dibenzoat d. 3,4-Dioxyl-Phenylhydrazonmethylbenzol. Sm. 167° (B. 220) (C. 1002 [2] 282). $C_{27}H_{20}O_3N_2$ Sm. 220-222° C₉₇H₉₀O₄N₂ (B. 36, 2930 C. 1903 [2] 887). 1) Nitril d. β -Diphenylhydrazon- α -[4-Chlorphenyl]- β -Phenylpropion-C₂₇H₂₀N₃Cl säure. Sm. 95° (J. pr. [2] 67, 385 C. 1903 [1] 1356). 2) 9-Phenyl-9-[4-Acetylamidophenyl]fluoren. Sm. 213,5° (B. 37, 75 C. 1904 [1] 519). $C_{27}H_{21}ON$ 3) 9-Phenylamido-10-Keto-9-Phenyl-9,10-Dihydroanthracen. Sm. 174-178° u. Zers. (B. 37, 3339 C. 1904 [2] 1056). 4) 10-Acetyl-5,5-Diphenyl-5,10-Dihydroakridin. Sm. 216,5—218,5° (B. 37, 3203 C. 1904 [2] 1472).

2) Benzoat d. Verb. C₂₀H₁₇ON. Sm. 155° (B. 36, 3922 C. 1904 [1] 98).

3) Di[Diphenylamid] d. Oximidomalonsäure. Sm. 237—238° u. Zers. $C_{27}H_{21}O_2N$ $C_{27}H_{21}O_3N_3$ K (C. 1904 [1] 1555). 2) αγ-Di[Phenylhydrazon]-β-Keto-α-Phenyl-γ-[4-Nitrophenyl] propan. Sm. 219° (B. 37, 1533 C. 1904 [1] 1609).
 C 76,6 — H 5,0 — O 15,1 — N 3,3 — M. G. 423.
 1) 3-Nitrobenzoat d. 4-Oxy-3-Methyltriphenylmethan. Sm. 93-94° $C_{27}H_{21}O_3N_5$ $\mathbf{C}_{27}\mathbf{H}_{21}\mathbf{O}_4\mathbf{N}$ (B. 36, 3562 C. 1903 [2] 1374). 2) Dibenzoat d. αβ-Dioxy-α-Phenyl-β-[2-Pyridyl]äthan. Sm. 88—89°. HCl + H₂O (B. 36, 121 C. 1903 [1] 470). C 73,8 - H 4,8 - O 18,2 - N 3,2 - M. G. 439.
1) 4-[3-Nitrobenzoat] d. α,4-Dioxy-3-Methyltriphenylmethan. Sm. 118-119° (B. 36, 3560 C. 1903 [2] 1374). $C_{27}H_{21}O_5N$ l) γ -Phenylhydrazon- $\beta\gamma$ -Diphenyl- α -[2-Chlorphenyl] propen. Sm. 131° C₂₇H₂₁N₂Cl (B. **35**, 3970 C. **1903** [1] 31). 3) s-Di[Diphenylmethylenamido] harnstoff. Sm. 221-223 ° (B. 37, 3180 $C_{27}H_{22}ON_4$ C. 1904 [2] 991).
6) N-Benzoyl-2-Benzoylamidobenzylphenylamin. $C_{27}H_{22}O_2N_2$ Sm. 201-203° (B. 37, 3118 C. 1904 [2] 1317). 7) $\alpha\beta$ -Dibenzoyl- α -Diphenylmethylhydrazin. Sm. 262° (J. pr. [2] 67, 169 C. 1903 [1] 873).
8) Di[Phenylamid] d. Diphenylmethan-2, 4'-Dicarbonsäure. Sm. 227° (A. 309, 120). — *II, 1096. 9) Di[Diphenylamid] d. Malonsäure. Sm. 219—220° u. Zers. (C. 1904) [1] 1555). C 72,0 — H 4,9 — O 10,7 — N 12,4 — M. G. 450. $C_{27}H_{22}O_3N_4$ 2-Oxy-3,5-Di[Phenylazo]benzol-1-[α-Phenylpropionsäure]. Sm. 223°
 (B. 37, 4134 C. 1904 [2] 1736). 6) Di[Phenylazo] cyanomaklurin. Sm. 245-247° (Soc. 67, 942; C. 1904 $C_{27}H_{22}O_8N_4$ [2] 439). — III, 684. 1) Verbindung. Sm. 198-201° (C. 1904 [1] 1003). $\mathbf{C}_{27}\mathbf{H}_{22}\mathbf{N}_{2}\mathbf{S}$ $C_{27}H_{23}ON$ 6) 9-[4-Dimethylamidophenyl]-9-Phenylxanthen. Sm. 195,5° (B. 37. 2374 C. 1904 [2] 344). Nonabromdehydrocholesterin. Sm. 145° (M. 24, 224 C. 1903 [2] 21).
 C 82,4 — H 5,8 — O 8,1 — N 3,6 — M. G. 393. C₂₇H₂₃OBr₉ C27 H23 O2 N 1) 5-Acetyl-3-Benzoyl-2-Methyl-4,6-Diphenyl-1,4-Dihydropyridin? Sm. 222° (B. 36, 2188 C. 1903 [2] 569). 2) Di[Diphenylamid] d. Amidomalonsäure. Sm. 200-201° (C. 1904 $C_{27}H_{23}O_2N_8$ [1] 1555). C 79,2 — H 5,6 — O 11,7 — N 3,4 — M. G. 409. $C_{27}H_{23}O_3N$ 1) 4-Oximido-l-Acetyl-3-Benzoyl-2, 6-Diphenyl-1, 2, 3, 4-Tetrahydrobenzol. Sm. 199° (B. 36, 2132 C. 1903 [2] 366). *2) Monobenzoat d. Chelidonin. Sm. 217° (C. 1904 [1] 1224).

3) $\beta\zeta$ -Diketo- $\gamma\varepsilon$ -Dibenzoyl- δ -[3-Nitrophenyl]heptan. Sm. 229—230° u. Zers. (Soc. 83, 1376 C. 1904 [1] 164, 450).

- C 66,8 H 4,7 O 19,8 N 8,7 M. G. 485. $C_{27}H_{28}O_6N_3$
 - 1) Tribenzoat d. $\beta\gamma s$ -Trioximidohexan. Zers. bei 180° (G. 34 [1] 46 C. 1904 [1] 1150).
- $C_{27}H_{28}O_{12}N_3$ *2) Tri[3-Nitrobenzyliden]-d-Mannit. Sm. 254° (Bl. [3] 29, 504 C. 1903 [2] 237).
- 5) Dimethyläther d. α-Phenylazo-4, 4'-Dioxytriphenylmethan. $C_{27}H_{24}O_{2}N_{2}$ 112° (B. 36, 2788 C. 1903 [2] 882).
- 1) 2,3,5-Tribenzyläther d. 2,3,5-Trimerkapto-1,4-Dioxybenzol. Sm. C27H24O2S 94—98° (A. 336, 154 C. 1904 [2] 1300). C 69,2 — H 5,1 — O 13,7 — N 12,0 — M. G. 468. 1) Di [4, 6 - Dioxy - 3 - (oder 5) - Phenylazo - 2 - Methylphenyl] methan
- $C_{27}H_{24}O_4N_4$
 - (Methylenbisbenzolazoorcin) (A. 329, 303 C. 1904 [1] 793).
- 1) Dimethyläther d. α -Phenylsulfon 4,4' Dioxytriphenylmethan. $C_{27}H_{24}O_4S$
- Sm. 160—161° (B. 36, 2789 C. 1903 [2] 882). C 64,8 H 4,8 O 19,2 N 11,2 M. G. 500. 1) Di [2, 4, 6 Trioxy 3, 5 Diphenylazo 3 Methylphenyl] methan C27H24O8N4 (Methylenbisbenzolazomethylphloroglucin). Sm. noch nicht bei 290°
- (A. **329**, 282 *C.* **1904** [1] 796). C27H24N2S3
- 1) Di[4-Methylphenyläther] d. s-Di[4-Merkaptophenyl]thioharnstoff. Sm. 155° (J. pr. [2] 68, 272 C. 1903 [2] 993). C 69,4 H 5,3 O 10,3 N 15,0 M. G. 467. $C_{27}H_{25}O_3N_5$
- 1) Phenylamido-4-Nitrophenylhydrazonmethyläther d. Dibenzylhydroxylamin. Sm. 209° (B. 37, 3237 C. 1904 [2] 1153). C 75,9 — H 5,8 — O 15,0 — N 3,3 — M. G. 427.
- $C_{27}H_{25}O_4N$ 1) Benzyldihydroberberin. Sm. 161-162° (B. 37, 3336 C. 1904 [2]
- C 73,1 H 5,6 O 18,1 N 3,2 M. G. 443. $C_{27}H_{25}O_5N$ 1) Benzoylanhydrocotarninacetophenon. Sm. 107-108° (B. 37, 2750
- C. 1904 [2] 546). 2) 4-Diäthylamidophenyl-4-Phenylamido-l-Naphtylketon. Sm. 146 C27 H26 ON2
- bis 147° (B. 37, 1903 C. 1904 [2] 115). Hexabromdehydrocholesterin. Sm. 112° (M. 24, 224 C. 1903 [2] 21). $C_{27}H_{26}OBr_6$ 3) 2-Naphtylamid d. β -Methylbutan- $\beta\delta$ -Dicarbonsäure. Sm. 150° $C_{27}H_{26}O_2N_2$
- (C. r. 138, 580 C. 1904 [1] 925). 3) 4,4'-Di[Diacetylamido]triphenylmethan. Sm. 172-173° (C. 1904 C27H28O4N2 [2] 227).
- C 65,0 H 5,2 O 12,9 N 16,9 M. G. 498. 1) Di [Benzylidenhydrazid] d. α -Benzoylamidoacetylamidoathan $\alpha\beta$ - $C_{27}H_{26}O_4N_6$
- Dicarbonsäure. Sm. 204° (J. pr. [2] 70, 175 C. 1904 [2] 1396). 2) Di 2-Oxybenzylidenhydrazid d. a-Benzoylamidoacetylamidoathan-C27H26O6N6 $\alpha\beta$ -Dicarbonsäure. Sm. 209° (J. pr. [2] 70, 175 C. 1904 [2] 1396).
 - 3) Di[Benzoylhydrazid] d. α-Benzoylamidoacetylamidoāthan-αβ-Dicarbonsäure. Sm. 228° (J. pr. [2] 70, 176 C. 1904 [2] 1396).
 2) 4-Oximido-1-Oxy-1,6-Diphenyl-2-[4-Isopropylphenyl]-1,2,3,4-
- C27 H27 O2 N Tetrahydrobenzol. Sm. 221—223° (Am. 31, 145 C. 1904 [1] 806).

 1) Triäthyläther d. 2,4,6-Tri[4-Oxyphenyl]-1,3,5-Triazin. Sm. 171°
- $C_{27}H_{27}O_3N_8$ corr. (B. 36, 3193 C. 1903 [2] 956).
- *2) Tetramethyläther d. 6,7-Dioxy-2-Benzyl-1-[3,4-Dioxybenzyliden]- $\mathbf{C}_{27}\mathbf{H}_{27}\mathbf{O}_4\mathbf{N}$ 1,2-Dihydroisochinolin (Benzylidenpapaverin; N-Benzylisopapaverin). Sm. 139—140°. Pikrat (B. 37, 528 C. 1904 [1] 818). *4) Salicylat d. Chinin. Sm. 140° (D.R.P. 137207 C. 1903 [1] 110).
- $\mathbf{C}_{27}\mathbf{H}_{28}\mathbf{O}_4\mathbf{N}_2$
- *2) Disazobenzolsantonsäure (B. 36, 1395 C. 1903 [1] 1360).
 3) 4-Nitrobenzylhydroxyd d. Papaverin. Salze siehe (B. 37, 3811 C27H28O4N4 $C_{27}H_{28}O_7N_2$
- C. 1904 [2] 1574). C 66.5 - H 6.0 - O 13.1 - N 14.4 - M. G. 487. $C_{27}H_{20}O_4N_5$ 1) Di[4-Methylphenylamid] d. α-Benzoylamidoacetylamidoäthan-α-
- Carbonsäure-\(\beta\)-Amidoameisensäure. Sm. 216° (J. pr. [2] 70, 181 C. 1904 [2] 1397).
- 2) α -Benzoyl- α -[2, 4, 6-Trimethylbenzyl]- β -[2, 4, 6-Trimethylbenzyliden]hydrazin. Sm. 142,5-143° (C. 1903 [1] 142). $C_{27}H_{30}ON_2$
- 1) Dibromdehydrocholesterin. Sm. 62-64° (M. 24, 225 C. 1903 [2] 21). $\mathbf{C}_{27}\mathbf{H}_{80}\mathbf{OBr}_{2}$ C 72,6 — H 6,7 — O 14,4 — N 6,3 — M. G. 446. $C_{27}H_{80}O_4N_2$
 - 1) Diacetat d. 4',4"-Di[Dimethylamido]-3,4-Dioxytriphenylmethan. Sm. 141° (B. 36, 2918 C. 1903 [2] 1065).

*1) Tri[1,2,3,4-Tetrahydro-1-Chinolyl]phosphin. Sm. 202—204° (A. 326, C27H30N3P 171 *C.* 1903 [1] 762). C 75,5 — H 7,2 — O 7,5 — N 9,8 — M. G. 429.

 $C_{27}H_{31}O_2N_3$

1) Aethyläther d. 5-0xy-3-Keto-1,1-Di[4-Dimethylamidophenyl]-2-Methyl-2,3-Dihydropseudoisoindol. Sm. 1810 (A. 329, 78 C. 1903

2) $\delta\delta$ -Di[3-Keto-1,5-Dimethyl-2-Phenyl-2,3-Dihydro-4-Pyrazolyl]-C27H32O2N4 β -Methylbutan (Isovaleryldiantipyrin). Sm. 160-161° (C. 1903 [1] 167).

1) $\beta\beta\epsilon$ -Tribenzylsulfonhexan. Sm. 129—130° (B. 37, 507 C. 1904 [1] 883). $C_{27}H_{32}O_6S_3$ 6) Aethylester d. 4',4"-Di [Dimethylamido]-3-Methyltriphenylmethan-6-Amidoameisensäure. Sm. 158—159° (B. 36, 2783 C. 1903 [2] 881).
7) Methylamid d. 4',4"-Di [Dimethylamido]-4-Oxytriphenylmethan-C27 H39 O2 N3

4-Aethyläther-2-Carbonsäure. Sm. 1850 (A. 329, 74 C. 1903 [2] 1440).

C27H34O8N3

C 63,0 — H 6,6 — O 24,9 — N 5,4 — M. G. 514.

1) Diäthylester d. Methylendi [Phenylamidoessigsäurecarbonsäure]. Sm. 113—114° (C. 1903 [2] 835)

1) Dibromcholestandion. Sm. 165° u. Zers. (B. 37, 2031 C. 1904 [2] 185). 1) Anhydrid d. Säure $C_{27}H_{43}O_4Cl$. Sm. 187° (B. 37, 3705 C. 1904 [2] $\mathbf{C}_{27}\mathbf{H}_{40}\mathbf{O}_2\mathbf{Br}_2$ $C_{27}H_{41}O_8Cl$ 1699).

1) Bromcholestanondisäure. Sm. 151° u. Zers. (B. 37, 2032 C. 1904 C₂₇H₄₁O₅Br [2] 185). C 66,1 - H 8,6 - O 19,6 - N 5,7 - M. G. 490.

C27H42O6N2

 Nitrat d. Nitrooxycholesterin. Sm. 128° (C. 1903 [1] 814).
 Chlorcholestanon. Sm. 128,5—129° (M. 24, 656 C. 1903 [2] 1236).
 isom. Chlorcholestanon. Sm. 180—181° (B. 37, 2032 Anm. C. 1904 C, H48 OC1 [2] 185; B. 37, 3702 C. 1904 [2] 1699). C 78,4 — H 10,4 — O 7,7 — N 3,4 — M. G. 413.

C₂₇H₄₈O₂N

1) Nitrocholesterin. Sm. 94—95° (M. 24, 649 C. 1903 [2] 1235). C 72,8 — H 9,7 — O 14,4 — N 3,1 — M. G. 445.

C27 H48 O4N 1) Nitrooxycholesterin. Sm. 123-124° (C. 1903 [1] 814)

1) Säure (aus Chlorcholestanon). Sm. 243° (B. 37, 3704 C. 1904 [2] 1699). C 70,3 — H 9,3 — O 17,3 — N 3,0 — M. G. 461.

1) Oxim d. Säure C₂₇ H₄₂O₅ 1046 G. 1004 [2] 1699). $C_{27}H_{48}O_4Cl$ $C_{27}H_{43}O_5N$

 $C_{27}H_{43}O_8N$

*1) Cevin (B. 37, 1946 C. 1904 [2] 125). C 61,7 — H 8,2 — O 27,4 — N 2,7 — M. G. 525. 1) Cevinoxyd. Sm. 275—278°. HCl, (HCl, AuCl₈) (B. 37, 1952 C. 1904 $C_{27}H_{43}O_{9}N$

[2] 126).

2) Dibromdihydroeuphorbon. Sm. 81° (Ar. 241, 240 C. 1903 [2] 120). C 75,7 — H 10,3 — O 7,5 — N 6,5 — M. G. 428.
1) Dioxim d. Cholestandion. Sm. 205° u. Zers. (B. 36, 3756 C. 1903 $C_{27}H_{44}OBr_{2}$ $C_{27}H_{44}O_{2}N_{2}$

[2] 1418).

 $C_{27}H_{45}ON$ 0 81,2 - H 11,3 — O 4,0 — N 3,5 — M. G. 399. 1) Oxim d. Cholestenon. Sm. 152° (B. 37, 3101 C. 1904 [2] 1535).

- 27 IV -

 $C_{27}H_{17}O_7NS$ 1) Di[2-Naphtylester] d. 4-Nitrobenzol-1-Carbonsäure-2-Sulfonsäure. Sm. 134° (Am. 30, 384 C. 1904 [1] 275).

 $C_{27}H_{18}O_3NC1$ 1) 6-Chlor-3-[2-Methylphenyl]amidofluoran. Sm. 192° (D.R.P. 85885; D.R.P. 139727 C. 1903 [1] 790). — *III, 574.

2) 6-Chlor-3-[4-Methylphenyl]amidofluoran. Sm. 194° (I).R.P. 85885). - *III, 574.

1) α -Benzoylimido - α -[Benzoyl - 4- Chlorphenyl] amido - α -Phenylmethan. Sm. 169° [J. pr. [2] 67, 456 \tilde{C} . 1903 [1] 1421). $C_{27}H_{19}O_2N_2Cl$

 $C_{27}H_{21}O_{12}N_3Br_2$ 1) Säure (aus Dibromdehydrocholesterin). Zers. bei 1980 (M. 24, 226) C. 1903 [2] 21).

 $C_{27}H_{25}O_9NS_8$ 1) Tribenzolsulfonat d. Suprarenin (M. 24, 279 C. 1903 [2] 302). - *III, 667.

1) Tetramethyläther d. 6,7-Dioxy-2-Benzyl-1-[6-Brom-3,4-Dioxy-C27H28OANBr benzyliden -1,2-Dihydroisochinolin. Sm. 113° (B. 37, 3814 C. 1904 [2] 1575).

 $C_{27}H_{27}O_6N_2Cl$ 2) 4-Nitrochlorbenzylat d. Papaverin. Sm. 132° u. Zers. + HgCl₂ (B. 37, 3811 C. 1904 [2] 1574).

 C₂₇H₂₀N₅SSi
 1) Verbindung (aus Aethylsenföl u. Silicotetraphenylamid) (Soc. 83, 255 C. 1903 [1] 572, 875).

 C₂₇H₃₀N₈SP
 *1) Tri[1,2,3,4-Tetrahydro-1-Chinolyl]phosphinsulfid (A. 326, 219 C. 1903 [1] 822).

 C₂₇H₃₆ON₃P
 1) Tri[2,4,5-Trimethylphenylamid] d. Phosphorsäure. Sm. 217° (A. 326, 252 C. 1903 [1] 868).

 2) Tri[2,4,6-Trimethylphenylamid] d. Phosphorsäure. Sm. 240° (A. 326, 252 C. 1903 [1] 868).

 C₂₇H₄₂OClBr
 1) Chlorbromeholestanon. Sm. 116—117° (B. 37, 3704 C. 1904 [2] 1699).

 C₂₇H₄₄ONCl
 1) Oxim d. isom. Chloreholestanon. Sm. 179—181° (B. 37, 3703 C. 1904 [2] 1699).

- 27 V -

 $\begin{array}{c} \mathbf{C_{27}H_{27}O_4NClBr\ 1)} \ \ \mathbf{Chlorbenzylat\ d.\ 6,7-Dioxy-1-[6-Brom-3,4-Dioxybenzyl]} \\ \mathbf{so-chinolintetramethyläther} \ (B.\ 37,\ 3814\ C.\ 1904\ [2]\ 1575). \end{array}$

C28-Gruppe.

	28 3.1.1.
$\mathbf{C}_{28}\mathbf{H}_{20}$	2) 9,10-Dibenzylidenanthracen. Sm. 237—240° (M. 25, 799 C. 1904 [2] 1137).
$\mathbf{C}_{28}\mathbf{H}_{22}$	*2) 9,10-Dibenzylanthracen. Sm. 241° (M. 25, 793 C. 1904 [2] 1137). 3) ααδδ-Tetraphenyl-αγ-Butadiën. Sm. 202°. + C ₆ H ₆ (C. r. 136, 695 C. 1903 [1] 967; Bl. [3] 29, 687 C. 1903 [2] 566).
$\mathbf{C}_{28}\mathbf{H}_{24} \\ \mathbf{C}_{28}\mathbf{H}_{26}$	2) polym. Stilben. Sm. 163° (B. 35, $4129 \cdot C$. 1903 [1] 160). *1) $\alpha \beta \gamma \delta$ -Tetraphenylbutan. Sm. 255° (B. 36, 539 C. 1903 [1] 707). 4) $\alpha \alpha \delta \delta$ -Tetraphenylbutan. Sm. 121° . + C_6H_6 (Bl. [3] 29, 688 C. 1903 [2] 566).
$\mathbf{C}_{28}\mathbf{H}_{58}$	2) Kohlenwasserstoff (aus Haschisch) (C. 1903 [2] 199).
	— 28 II —
$\mathbf{C}_{28}\mathbf{H}_{16}\mathbf{O}_{6}$	3) Dibenzoat d. 4,5-Dioxy-9,10-Phenanthrenchinon. Sm. 170° (B. 36,

$\mathbf{C}_{28}\mathbf{H}_{58}$	2) Kohlenwasserstoff (aus Haschisch) (C. 1903 [2] 199).
	— 28 II —
$\mathbf{C}_{28}\mathbf{H}_{16}\mathbf{O}_{6}$	3) Dibenzoat d. 4,5-Dioxy-9,10-Phenanthrenchinon. Sm. 170° (B. 36, 3752 C. 1904 [1] 38).
$\mathbf{C}_{28}\mathbf{H}_{16}\mathbf{N}_{2}$	3) 1,2,2',1'-Anthrazin. Sm. 390° (400° u. Zers.) (B. 36, 1722 C. 1903 [2] 44; B. 36, 3442 C. 1903 [2] 1280).
$\mathbf{C_{28}H_{18}O_8}$	3) Anhydrid d. $\alpha\alpha$ -Diphenyl- $\beta\beta$ -Biphenylenäthan- $\alpha\beta$ -Dicarbonsäure. Sm. 256° (B. 29, 738). — *II, 1109.
$C_{28}H_{18}O_4$	7) Dibenzoat d. 9, 10 - Dioxyphenanthren. Sm. 230—231° (D.R.P. 151981 C. 1904 [2] 167).
$\mathbf{C}_{28}\mathbf{H}_{18}\mathbf{O}_{5}$	*1) Anhydrid d. Diphenylketon-2-Carbonsäure. Sm. 127° (M. 25, 478 C. 1904 [2] 337).
$egin{array}{c} \mathbf{C}_{28} \mathbf{H}_{18} \mathbf{O}_9 \\ \mathbf{C}_{28} \mathbf{H}_{18} \mathbf{N}_2 \\ \mathbf{C}_{28} \mathbf{H}_{20} \mathbf{O}_2 \\ \end{array}$	*2) Tetrasalicylid (<i>J. pr.</i> [2] 69, 29 <i>C.</i> 1904 [1] 641). 3) 9,9'-Azophenanthren. Zers. bei 270° (<i>B.</i> 36, 2514 <i>C.</i> 1903 [2] 506). 9) 4-Oxy-2-Methylphenyldinaphtopyran. Sm. 215° (<i>C. r.</i> 138, 283)
	 C. 1904 [1] 730). 10) 4 - Oxy-3-Methylphenyldinaphtopyran. Sm. 232—233° (C. r. 138, 283 C. 1904 [1] 730). 11) 6-Oxy-3-Methylphenyldinaphtopyran. Sm. 249—250° (C. r. 138, 249—250° (C. r. 138, 249—250°).
C ₂₈ H ₂₀ O ₈	 284 C. 1904 [1] 730). *3) Guajakoldinaphtopyran (Verb. aus Vanillin u. β-Naphtol). Sm. 210° (C. r. 137, 860 C. 1904 [1] 104).
$\mathbf{C_{28}H_{20}O_4}$	7) $\alpha \alpha$ -Diphenyl- $\beta \beta$ -Biphenylenäthan- $\alpha \beta$ -Dicarbonsäure (B. 29, 734). — *II, 1109.
$C_{28}H_{20}O_8$	C 69,4 — H 4,1 — O 26,4 — M. G. 484. 1) 5,7-Diacetoxyl-3-Benzoyl-4-Methylen-2-Phenyl-1,4-Benzpyran- 2 ² -Carbonsäure. Sm. 189° u. Zers. (B. 37, 1971 C. 1904 [2] 232).
$\mathbf{C}_{28}\mathbf{H}_{20}\mathbf{O}_{11}$	4) Tetraacetat d. Phloroglucinphtaleïn. Sm. 230° u. Zers. (B. 36, 1073 C. 1903 [1] 1181).
$\mathbf{C}_{28}\mathbf{H}_{20}\mathbf{Cl}_{6}$ $\mathbf{C}_{28}\mathbf{H}_{20}\mathbf{S}$	*1) Ditolanhexachlorid (B. 36, 3063 C. 1903 [2] 946). *1) Thionessal. Sm. 184° (R. 21, 422 C. 1903 [1] 503; B. 36, 538 C. 1903 [1] 707).

*1) 9-[a-Brombenzyl]-10-Benzylanthracen. Sm. 187° (M. 25, 794 C. 1904

*7) 9-[a-Oxybenzyl]-10-Benzylanthracen. Sm. 1510 (M. 25, 806 C. 1904

Cas Hat Br

C..H..O

C28H44O2

C28H44O8

 $C_{98}H_{48}O$

[2] 1137).

[2] 1137). 7) Benzoat d. α -Oxy- $\alpha\gamma\gamma$ -Triphenylpropen. Sm. 220° (Am. 31, 653 C. 1904 [2] 446). C. H. O. 4) Dimethyläther d. 10-Keto-9,9-Di[4-Oxyphenyl]-9,10-Dihydro- $C_{n}H_{n}O_{3}$ anthracen. Sm. 208° (B. 37, 3618 C. 1904 [2] 1503). *2) Dibenzoat d. $\alpha\alpha$ -Di[4-Oxyphenyl]äthan. Sm. 148,9° (C. 1904 [1] 1650). C28H22O4 *1) Dibenzilsäure (B. 36, 145 C. 1903 [1] 465). C98H22O5 2) 2,5-Dibenzoat d. 2,5,4'-Trioxydiphenylmethan-4'-Methyläther. Sm. 125° (B. 37, 3488 C. 1904 [2] 1301). 3) 2,2,5,5-Tetraphenyltetrahydrofuran. Sm. 182° (C. r. 136, 695 C,,H,,O C. 1903 [1] 967). 4) Acetat d. 4'-Oxy-4-Methyltetraphenylmethan. Sm. 135° (B. 37, 660) $C_{98}H_{94}O_{9}$ C. 1904 [1] 952). 2) Tetraguajakchinon. Sm 135—140° (C. r. 137, 1271 C. 1904 [1] 445). $C_{28}H_{24}O_8$ 12) γ -Phenylhydrazon- $\beta\gamma$ -Diphenyl- α -[4-Methylphenyl] propen. Sm. 1870 (B. 35, 3967 C. 1903 [1] 31). C,8H,4N, 13) 4,4'-Di[4-Methylbenzylidenamido] biphenyl. Sm. 231° (B. 37, 3423) C. 1904 [2] 1295). *1) $\alpha\beta$ -Dioxy- $\alpha\beta$ -Diphenyl- $\alpha\beta$ -Di[4-Methylphenyl] äthan. Sm. 163—164° (B. 37, 2762 C. 1904 [2] 707). C, H, O, 5) $\alpha \delta$ -Dioxy- $\alpha \alpha \delta \delta$ -Tetraphenylbutan. Sm. 208° (202°) (C. r. 136, 694 C. 1903 [1] 967; B. 37, 2641 C. 1904 [2] 529). C 68.6 - H 5.3 - O 26.1 - M. G. 490.CogHogOg 1) Tetraguajakhydrochinon. Sm. 115-120° (C. r. 137, 1271 C. 1904 [1] 445). 6) α-Phenylazotri[4-Methylphenyl]methan. Sm. 113—116° u. Zers.
 (B. 37, 3160 O. 1904 [2] 1048).
 C 89,1 — H 7,2 — N 3,7 — M. G. 377. CasHasNa CogHonN 1) α-Phenylamidotri [4-Methylphenyl] methan. Sm. 131° (B. 37, 3159 C. 1904 [2] 1048). 2) Tribenzoat d. δ -Oxy- $\gamma\gamma$ -Di[Oxymethyl]- β -Methylbutan. Sm. 55° (B. 36, 1346 C. 1903 [1] 1298). CogHogO CosHosN2 8) a-Phenylhydrazidotri 4-Methylphenyl] methan (B. 37, 3160 C. 1904 [2] 1049). 9) Verbindung (aus 2-Methylindol u. Cuminol). Sm. 218-219 (B. 36, 4329) O. 1904 [1] 463). C 82,1 — H 7,6 — N 10,3 — M. G. 409. Cos Hat Na 1) Di[4 - Dimethylamidophenyl] - 4 - Methylamido-1 - Naphtylmethan. Sm. 201—202° (C. 1903 [1] 87; B. 37, 1908 C. 1904 [2] 115). C,8H,32O,17 C 52,5 — H 5,0 — O 42,5 — M. G. 640. 1) Cocacitrin + 3H₂O. Sm. 186° (wasserfrei) (J. pr. [2] 66, 403 C. 1903 [1] 527). C., H., O. C 82.8 - H 9.3 - O 7.9 - M. G. 406.1) γθ-Diketo-εζ-Di[4-Isopropylphenyl]dekan. Sm. 169,5° (A. 330, 260 C. **1904** [1] 947)

2) $\beta \eta$ -Diketo- δs -Di[4-Isopropylphenyl]- $\gamma \zeta$ -Dimethyloktan. Sm. 145,5° (4. 330, 263 C. 1904 [1] 947). C₂₈H₃₈O₁₉ *4) Oktoacetat d. Melibiose. Sm. 170—171° (C. 1904 [1] 1645). 9) Oktacetylcellose. Sm. 228—229° (Bl. [3] 31, 856 C. 1904 [2] 644).

9) Oktacetylcellose. Sm. 228—229° (*Bl.* [3] **31**, 856 *C.* **1904** [2] 644). 10) isom. Oktacetylcellose. Sm. 196° (*Bl.* [3] **31**, 856 *C.* **1904** [2] 644). 11) Oktacetat d. Mannobiose $C_{12}H_{22}O_{11}$ (aus Salepschleim) (*B.* **36**, 3201 *C.* **1903** [2] 1055).

*2) Acetat d. Lupeol. Sm. 210° (B. 37, 4108 C. 1904 [2] 1655).

3) Phenylester d. Behenolsäure. Sm. 43° (B. 36, 3602 C. 1903 [2] 1314). C 78,5 — H 10,3 — O 11,2 — M. G. 428.

1) Formiat d. Cholestanonol. Sm. 104—105° (B. 36, 3754 C. 1903 [2] 1417).

2) Verbindung (aus Asclepias syriaca L.). Sm. 180—181° (J. pr. [2] 68, 456 C. 1904 [1] 191).

 $C_{28}H_{46}O_2$ 5) Arnisterin. Sm. 249—250°. + C_2H_6O (C. r. 138, 765 C. 1904 [1] 1224).

- 6) Verbindung (aus Asclepias syriaca L.). Sm. 40—45° (J. pr. [2] 68, 398
 C. 1904 [1] 105).
 C 75,3 H 10,3 O 144 M. G. 446. C28H46O. $C_{28}H_{46}O_4$
- Methylester d. Säure C₂₇H₄₄O₄. Sm. 105° (B. 37, 2030 C. 1904 [2] 184).
 Monomethylester d. Säure C₂₇H₄₄O₄ (aus Cholesterin). Sm. 125°
- 2) Monomethylester d. Säure C₂₇H₄₄O₄ (aus Cholesterin). Sm. 125° (B. 37, 3098 C. 1904 [2] 1535).

 3) Anthesterin (oder C₂₉H₅₀O). Sm. 221-223° (Bl.[3] 27,1231 C.1903 [1] 237).

 1) Herniariasäure (C. 1904 [1] 1215).

 C 80,4 H 12,0 O 7,6 M. G. 418.

 1) Oleat d. Borneol. Sd. 295°₁₈ (C. r. 136, 238 C. 1903 [1] 584).

 *1) Stearat d. d-Borneol (C. r. 136, 238 C. 1903 [1] 584).

 C 80,8 H 12,5 N 6,7 M. G. 416.

 1) 1.3 Di Diisoamylamidomethyllbenzol. Fl. (2HCl. 2tCl.) 2 Pikret C₂₈H₄₈O $\mathbf{C}_{28}^{10}\mathbf{H}_{49}^{10}\mathbf{O}_{14}$
- $C_{28}H_{50}O_{2}$
- C28H52O2 $\mathbf{C}_{28}^{"}\mathbf{H}_{52}^{"}\mathbf{N}_{2}$
 - 1) 1,3 Di[Diisoamylamidomethyl]benzol. Fl. (2HCl, PtCl₄), 2 Pikrat (B. 36, 1676 C. 1903 [2] 29).
- $C_{28}H_{56}O_{2}$ *5) Acetat d. Cerylalkohol. Sm. 64,3° (B. 36, 1053 C. 1903 [1] 1148).

— 28 III —

- C. 1903 [1] 1182).
- $C_{28}H_{17}O_{2}N$ 2) β-Naphtylchinophtalon. Sm. 326° (B. 37, 3017 C. 1904 [2] 1409).
- β-Naphtylisochinophtalon. Sm. 273° (B. 37, 3017 C. 1904 [2] 1409). C 84,4 H 4,5 O 4,0 N 7,1 M. G. 398.
 9,9'-Azoxyphenanthren. Zers. bei 254—255°. + C₂H₆O (B. 36, $C_{28}H_{18}ON_2$
- 2512 C. 1903 [2] 506). 4) 1, 4 - Di [Benzoylamido] naphtalin. Sm. 280,5° (B. 36, 4149, 4150 $\mathbf{C}_{28}\mathbf{H}_{18}\mathbf{O}_{2}\mathbf{N}_{2}$
- C. 1904 [1] 187). αβ-Dibenzoyl-α-[1-Naphtyl]hydrazin. Sm. 195—196° (B. 36, 4149 C. 1904 [1] 187).
 N-Dihydroanthranonazin (B. 36, 3439 C. 1903 [2] 1280).
 Tetraacetat d. Dichlordioxyfluoresceïn. Sm. 276° (B. 36, 1081
- C₂₈H₁₈O₁₁Cl₂ 1) Tetraacetat d. Dichlordioxyfluorescein. C. 1903 [1] 1182).
- $C_{28}H_{18}O_{11}Br_2$ 2) Tetraacetat d. Dibromdioxyfluoresceïn. Sm. 272° (B. 36, 1082) C. 1903 [1] 1182).
- 4) Tetrabenzoylhydrazin. Sm. 238° (220°) (Bl. [3] 31, 626 C. 1904 [2] $C_{28}H_{20}O_4N_2$ 97; J. pr. [2] 70, 275 Anm. C. 1904 [2] 1544). C 66,6 — H 4,0 — O 12,7 — N 16,6 — M. G. 504.
- $C_{28}H_{20}O_4N_6$ 1) $\alpha\beta$ -Di[3-(3-Carboxylphenyl)azobenzyliden]hydrazin (B. 36, 3473 C. 1903 [2] 1269). C 68,3 — H 4.0 — O 16,3 — N 11,4 — M. G. 492.
- C28H20O5N4 1) N-4-Formylphenyläther d. 4-Azoxybenzaldoxim (B. 36, 794 C. 1903
- [1] 968; B. 36, 2307 C. 1903 [2] 429). C 66,1 H 3,9 O 18,9 N 11,0 M. G. 508. 1) P-Dinitro I, 5 Di [4 Methylphenylamido] 9,10 Anthrachinon (D.R.P. 142512 C. 1903 [2] 84). C28H20O6N4
 - 2) P Dinitro 1, 8 Di [4 Methylphenylamido] 9, 10 Anthrachinon
- (D.R.P. 142512 C. 1903 [2] 84). C 60,9 H 3,6 O 20,3 N 15,2 M. G. 552. 1) Verbindung (aus 1,3-Dinitrobenzol u. Benzylcyanid). Zers. bei 97° (B. 37, 838 C. 1904 [1] 1202). C28 H20 O7 N6

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C_{28}H_{20}O_{10}Br_2 1) Aethylester d. Triacetyldibromdioxyfluoresceïn. Sm. 252° (B. 36,
                   1083 C. 1903 [1] 1182).
                5) Dimethyläther d. Hydrochinonphtaleïnanilid. Sm. 1830 (B. 36,
C28H21O4N
                   2960 C. 1903 [2] 1006).
                6) 4-Benzylphenylester d. \alpha-Phenyl-\beta-[4-Nitrophenyl]akrylsäure. Sm. 155—156° (G. 33 [2] 457° C. 1904 [1] 654).
                2) Dimethylenäther d. 3,4-Dioxycinnamylidenmethyl-4-[3,4-Dioxy-
C_{28}H_{21}O_5N
                   cinnamyliden]amidophenylketon. Sm. 195-196° u. Zers. (B. 37,
                   1701 C. 1904 [1] 1497).
                4) 1,4-Di[4-Methy]nhanmanidal-9,10-Anthrachinon (Chinizaringrün).
C_{28}H_{22}O_2N_2
                                             , ·
                   Sm. 218° (D.R.P. ...
                                                    . 126803; C. 1904 [2] 339). — *III, 297.
                5) \beta-Benzoylimido-\beta-Phenylbenzoylamido-\alpha-Phenyläthan. Sm. 175°
                   (C. 1903 [2] 831).
                6) \alpha - Benzoylimido - \alpha - Benzoyl - 2 - Methylphenyl amido - \alpha - Phenyl-
                   methan. Sm. 167° (Č. 1903 [2] 831).
                7) 1,5-Di[4-Methylphenylamido]-9,10-Anthrachinon. Sm. 200-2100
                (C. 1903 [1] 722).

5) Benzoat d. 4-Oxy-3-Benzoylphenylhydrazonmethyl-1-Methyl-
C_{23}H_{22}O_{8}N_{2}
                   benzol. Sm. 164° (B. 35, 4107 C. 1903 [1] 150).
                6) Benzoat d. 2-Oxy-1-Benzoyl-3-Phenyl-1,2,3,4-Tetrahydro-1,3-Benz-
                diazin. Sm. 168—169° (B. 37, 3119 C. 1904 [2] 1317).

1) 1,4-Diacetat d. 2,3,5-Trimerkapto-1,4-Dioxybenzol-2,3,5-Tri-
C_{28}H_{22}O_4S_8
                   phenyläther. Sm. 101-101,5° (A. 336, 141 C. 1904 [2] 1299).
C28H22O5N4
                   C 68,0 — H 4,4 — O 16,2 — N 11,3 — M. G. 494.

    Aethyläther d. 4,4'-Di[4-Nitrobenzylidenamido]-3-Oxybiphenyl.
Sm. 182—183° (B. 36, 4073 C. 1904 [1] 267).

C_{28}H_{23}O_2N_3
                4) 3'-Acetylamido-2'-Methyl-9-[4-Acetylamidophenyl|-1,2-Napht-
                   akridin. Sm. 354° (C. 1903 [1] 884).
C_{28}H_{24}ON_2
                5) \alpha-Acetyl-\alpha-Diphenylmethyl-\beta-Diphenylmethylenhydrazin. Sm. 145°
                   (J. pr. [2] 67, 178 C. 1903 [1] 874).
C_{28}H_{24}OS

    Benzyläther d. γ-Keto-α-Merkapto-αβγ-Triphenylpropan. Sm. 207°

                   (B. 37, 505 C. 1904 [1] 882).
C_{28}H_{24}O_2N_2*16) 1,4-Di[4-Methylphenylamido]-9,10-Dioxyanthracen (C. 1904 [2])
                   339).
              17) 1, 5-Di[4-Methylphenylamido] - 9, 10-Dioxyanthracen.
                   (C. 1904 [2] 340).
              18) Di[Phenylamid] d. \alpha\beta-Diphenyläthan-4,4'-Dicarbonsäure. (B. 37,
                   3218 C. 1904 [2] 1120).
C_{28}H_{24}O_2N_4
               2) \alpha-Imido-\alpha-Benzoylamido-\alpha-[\beta-Benzoyl-\beta-Phenyl-\alpha-4-Methylphenyl-
                   hydrazido]methan. Sm. 279° (Am. 29, 81 C. 1903 [1] 523).
                3) Dimethyläther d. 1,4-Diphenyl-3,6-Di[4-Oxyphenyl]-1,4-Dihydro-1,2,4,5-Tetrazin. Sm. 173,5-174,5° (B. 36, 371 C. 1903 [1] 577).
                   Dibenzoylderivat d. 4 - Dimethylamido - Sm. 112° (J. pr. [2] 69, 236 C. 1904 [1] 1269).
C_{28}H_{24}O_8N_9
              *4) Dibenzoylderivat
                                               4 - Dimethylamido - 3' - Oxydiphenylamin.
              *5) Dibenzoylderivatd. 4-Dimethylamido-4'-Oxydiphenylamin. Sm. 2100
                   (J. pr. [2] 69, 165 C. 1904 [1] 1268).
              12) 4, 4'-Di [4-Methoxylbenzylidenamido]-2-Oxybiphenyl. Sm. 2000
              (B. 36, 4114 C. 1904 [1] 272).
13) 3-Aethyläther d. 4,4'-Di[2-Oxybenzylidenamido]-3-Oxybiphenyl. Sm. 136—137° (B. 36, 4073 C. 1904 [1] 267).
C_{28}H_{24}O_3S
               1) \alpha-Keto-\gamma-Benzylsulfon-\alpha \beta\gamma-Triphenylpropan. Sm. 252—254° (B. 37,
                   506 C. 1904 [1] 882).
              *1) Orcein (M. 24, 902 C. 1904 [1] 513).
\mathbf{C}_{28}\mathbf{H}_{24}\mathbf{O_7N_2}
               1) Dibenzyläther d. Di[Phenylimidomerkaptomethyl]disulfid. Sm. 1210 (B. 36, 2265 C. 1903 [2] 562).
C_{28}H_{24}N_{2}S_{5}
               C 73,8 — H 5,5 — O 17,6 — N 3,1 — M. G. 455.
1) Benzoyldehydrocorybulbin. Sm. 173—174°. HCl + 2H_2O, + CHCl<sub>3</sub>,
C_{28}H_{25}O_5N
                  + Aceton (Ar. 241, 642 C. 1904 [1] 181).
                  C 82.8 — H 6.4 — O 3.9 — N 6.9 — M. G. 406.
C28H28ON2
               1) \alpha-Acetyl-\alpha\beta-Di[Diphenylmethyl]hydrazin. Sm. 158° (J. pr. [2] 67,
                  188 C. 1903 [1] 875).
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 $C_{28}H_{26}O_{2}N_{4}$ *4) Dimethyläther d. Dehydro-4-Oxybenzalphenylhydrazon. Sm. 197

bis 198° (B. 36, 68 C. 1903 [1] 451).

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C<sub>28</sub>H<sub>26</sub>O<sub>2</sub>N<sub>4</sub> 12) Diäthyläther d. 4,4'-Di[4-Oxyphenylazo]biphenyl. Sm. 252—253°
                       (B. 36, 2974 C. 1903 [2] 1031).

*1) Jodnethylat d. Base C<sub>27</sub>H<sub>23</sub>N<sub>5</sub> (J. pr. [2] 66, 576 C. 1903 [1] 589).

2) 4-Diäthylamidophenyl-4-[A-Methylphenyl]amido-l-Naphtylketon.
C_{28}H_{26}N_5J
C28H28ON
                               Sm. 176-177° (B. 37, 1903 C. 1904 [2] 115).
C 85,0 — H 7,3 — O 4,1 — N 3,5 — M. G. 395.
C_{28}H_{29}ON
                          1) \gamma - Keto - \gamma - [4 - Isopropylbenzylidenamidophenyl] - \alpha - [4 - Isopropyl-
                         phenyl]propen. Sm. 128 (B. 37, 394 C. 1904 [1] 657).
2) s-Tetraäthylrhodamin (D. R. P. 44002, 48367, 81056, 87028, 89092).
\mathbf{C}_{28}\mathbf{H}_{30}\mathbf{O}_{3}\mathbf{N}_{2}
                                 - *III, 575.
\mathbf{C}_{28}\mathbf{H}_{30}\mathbf{O}_{10}\mathbf{N}_{4}*1) 4,4'-Biphenyldihydrazon d. Oxalessigsäurediäthylester (Bl. [3] 31,
                               87 C. 1904 [1] 580).
\mathbf{C}_{28}\mathbf{H}_{30}\mathbf{N}_{8} 1
                         1) Chlorid d. \alpha-Oxy-\alpha \alpha-Di[4-Dimethylamidophenyl]-\alpha-[4-Methyl-

    amido-1-Naphtyl]methan (B. 37, 1912 C. 1904 [2] 115).
    Chlormethylat d. α - Phenylimido - α - [4 - Dimethylamidophenyl]-α-[4-Aethylamido-1-Naphtyl]methan (B. 37, 1904 C. 1904 [2] 116).

    Jodmethylat d. α - [4 - Dimethylamidophenyl] - αα - Di[2 - Methyl-3-Indolyl]methan. Sm. 181--182° (B. 37, 323 C. 1904 [1] 668).
    Imid d. s-Tetraäthylrhodamin. Sm. 229° (D.R.P. 81264). — *III, 576.

C<sub>28</sub>H<sub>30</sub>N<sub>8</sub>J
\mathbf{C}_{28}\mathbf{H}_{31}\mathbf{O}_{2}\mathbf{N}_{3}

    Tri[2-Methylphenylamido]phosphin-2-Methylphenylimid.
    (2HCl, PtCl<sub>4</sub>), HNO<sub>3</sub> (C. r. 138, 816 C. 1904 [1] 1204).
    C 78,5 — H 7,5 — O 7,5 — N 6,5 — M. G. 428.

\mathbf{C}_{28}\mathbf{H}_{31}\mathbf{N}_{4}\mathbf{P}
C28H32O2N3
                          1) Lakton d. α-Oxy-4, 4'-Di[Diäthylamido]triphenylmethan-2"-Carbon-

säure (Diäthylanilinphtaleïn). Sm. 128° (C. r. 126, 1251). — *II, 1019.
C 75,5 — H 7,8 — O 7,2 — N 9,4 — M. G. 445.
Dimethylamid d. 4',4"-Di[Dimethylamido]-4-Oxytriphenylmethan-

C28 H35 O2 N3
                               4-Aethyläther-2-Carbonsäure. Sm. 139-140° (A. 329, 75 C. 1903)
                         [2] 1440).
C 72,9 — H 7,6 — O 10,4 — N 9,1 — M. G. 461.
1) Aethylester d. \alpha-Oxy-4',4"-Di[Dimethylamido]triphenylmethan-
C_{28}H_{35}O_{3}N_{3}
                               α-Aethyläther-2-Amidoameisensäure. Sm. 161-162 o u. Zers. (B. 36,
                               2785 C. 1903 [2] 881).
                          2) Dimethylamid d. 4',4''-Di[Dimethylamido] - \alpha,4 - Dioxytriphenyl-
                               methan-4-Aethyläther-2-Carbonsäure. Sm. 188° (A. 329, 79 C. 1903
                               [2] 1441).
                       *1) Cephaëlin (C. 1903 [1] 92).

C 69,4 — H 8,3 — O 16,5 — N 5,8 — M. G. 484.

1) Emetin. (HJ, J<sub>7</sub>) (C. 1898 [2] 1190). — *III, 656.

C 71,5 — H 8,9 — O 13,6 — N 6,0 — M. G. 470.

1) Diisobutylderivat d. Yohimboasäure. Sm. 137—138° (B. 37, 1764)
C_{28}H_{40}O_4N_2
C_{28}H_{40}O_5N_2
C_{28}H_{42}O_4N_2
                               C. 1904 [1] 1527).
C 65.0 — H 8.3 — O 18.6 — N 8.1 — M G. 517.
C_{28}H_{43}O_6N_3
                          1) Verbindung (aus Cholesterin). Sm. 147—148° (C. 1903 [1] 814).
                       1) Verbinding (all Choisterm). Sm. 121—143 (C. 1803 [1] 514).

*1) Phenylamid d. Behenolsäure. Sm. 72° (B. 36, 3602 C. 1903 [2] 1314).

C 62,2 — H 8,5 — O 26,6 — N 2,6 — M. G. 540.

1) Isopyroin. Sm. 160°. HCl, (2HCl, PtCl<sub>4</sub>) (C. 1903 [1] 650).

C 76,2 — H 10,7 — O 3,6 — N 9,5 — M. G. 441.

1) Semicarbazon d. Cholestenon. Sm. 240° (B. 37, 3100 C. 1904 [2] 1535).
C_{28}H_{45}ON
C_{28}H_{46}O_9N
CogH47ON8
                          C 72,9 — H 10,2 — O 13,9 — N 3,0 — M. G. 461.

1) Methylester d. Oximsäure C_{27}H_{45}O_4N. Sm. 148° (B. 37, 2030 C. 1904)
C_{28}H_{47}O_4N
                               [2] 184).
                                C^{3}46,9^{2} — H 7,8 — O 17,9 — N 27,4 — M. G. 716.
C_{28}H_{56}O_8N_{14}
                          1) Clupeon. 2(2 HCl, PtCl<sub>4</sub>) (H. 37, 109 C. 1903 [1] 236).
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- 28 IV -

C₂₈H₁₀O₄N₂Br₂
1) Indanthren C. (B. 36, 931 C. 1903 [1] 1032).
C₂₈H₁₈O₄N₂Cl
1) 4-Chlorindanthren (B. 36, 3436 C. 1903 [2] 1279).
1) Phenylsulfondihydrochinoxalophenanthrazin. Sm. oberh. 300° (B. 36, 4044 C. 1904 [1] 183).
2) Phenylsulfondinaphtofluoflavin. Sm. oberh. 300° (B. 36, 4046 C. 1904 [1] 184).

C₂₈H₂₀O₄NCl 1) Aethyläther d. 6-Chlor-3-[4-Oxyphenyl]amidofluoran. Sm. 192° (D. R. P. 85885). — *III, 574.

 $C_{29}H_{24}O_8$

 $C_{29}H_{28}O_{2}$

C29 H27 N2

 $C_{28}H_{22}O_5N_2S$ 1) 1,4-Di[4-Methylphenylamido]-9,10-Anthrachinon-12-oder -13-Sulfonsäure (Alizarincyaningrün) (C. 1904 [1] 101; 1904 [2] 339). 1) 1,4-Di[4-Methylphenylamido] - 9, 10 - Anthrachinon - 12,6 [oder $C_{28}H_{22}O_8N_2S_2$ 13,6]-Disulfonsäure (Anthrachinongrün GX) (C. 1904 [2] 340). 1) Disazoverbindung (aus 4,4'-Diamido-3,3'-Dimethylbiphenyl-0,6'- $C_{28}H_{22}O_{12}N_4S_2$ Disulfonsäure u. 2-Oxybenzol-1-Carbonsäure). Ba₂ (J. pr. [2] 66, 567 C. 1903 [1] 519). 1) 7-Aethyläther d. 2,7-Dioxy-2,3-Diphenyl-1-[3-Bromphenyl]- $\mathbf{C}_{28}\mathbf{H}_{28}\mathbf{O}_{2}\mathbf{N}_{2}\mathbf{Br}$ 1,2-Dihydro-1,4-Benzdiazin. Sm. 166-169° (B. 36, 3868 C. 1904 3) Di[4-(4-Methylphenyl)merkaptophenylamid] d. Oxalsäure (Di- $C_{28}H_{24}O_2N_2S_2$ p-Thiotolyloxanilid). Sm. 242° (J. pr. [2] 68, 269 C. 1903 [2] 993). 1) Di [Diphenylamid] d. Dimethyldiselenid- $\alpha\alpha'$ -Dicarbonsäure. Sm. $\mathbf{C}_{28}\mathbf{H}_{24}\mathbf{O}_{2}\mathbf{N}_{2}\mathbf{Se}_{2}$ 123-124° (Ar. 241, 221 C. 1903 [2] 104). *1) Aethylbrillantgelb (B. 36, 2976 C. 1903 [2] 1031). $C_{28}H_{24}O_8N_4S_2$ 1) Aethyläther d. 4,4'-Di $[\beta$ -Phenylthioureido]-3-Oxybiphenyl C28H26ON4S2 (B. 36, 4074 C. 1904 [1] 267). 1) Acetat d. 2,5,6-Tribrom-4-Oxy-1,3-Di[Acetyl-4-Methylphenyl- $\mathbf{C}_{28}\mathbf{H}_{27}\mathbf{O}_4\mathbf{N}_2\mathbf{Br}_3$ amidomethyl]benzol. Sm. 154° (B. 37, 3910 C. 1904 [2] 1593). 2) 3,3'-Di[Methyl-4-Methylphenylsulfonamido]biphenyl. Sm. 150° $C_{28}H_{28}O_4N_2S_2$ (A. 332, 61 C. 1904 [2] 41).
3) 4,4'-Di[Methyl-4-Methylphenylsulfonamido] biphenyl. Sm. 235° (B. 37, 3772 C. 1904 [2] 1548). C28 H30 O4 NJ 1) Benzoat d. Methylthebeninmethylätherjodmethylat. Sm. 2710 (B. 37, 2788 C. 1904 [2] 716). Verbindung (aus Methylsenföl u. Silicotetraphenylamid) (Soc. 83, 255 C. 1903 [1] 875). C28H30N6S2Si C28H39N4ClP 4) Chlortetra[Benzylamido] phosphor. Sm. 208° (A. 326, 151 C. 1903 [1] 760). C28H38O4N2J2 *1) Diathylester d. stab. $\alpha\beta$ -Di[1,2,3,4-Tetrahydro-2-Inochinolylläthan-2,2'-Di[Jodammoniumessigsäure]. Sm. 1167 C. 1903 [1] 1187).
*2) Diäthylester d. lab. $\alpha\beta$ -Di[1, 2, 3, 4-Tetrahydro-2-Isochinolyl]äthan-2,2'-Di[Jodammoniumessigsäure]. Sm. 51-53° (B. 36, 1168 C. 1903 [1] 1187). C₂₉-Gruppe. *1) 2,3,4,5-Tetraphenyl-R-Penten. Sm. 177—178° (B. 36, 936 C. 1903 $C_{29}H_{22}$ [1] 1020). - 29 II -C29H18O6

3) Dibenzoat d. 5,6-Dioxy-2-Keto-l-Benzyliden-1,2-Dihydrobenzfuran. Sm. 192,5—194° (B. 29, 2432). — *III, 532. $C_{29}H_{22}O_{12}$ C 61,9 - H 3,9 - O 34,2 - M. G. 562.

1) Pentaacetat d. 2,3,7-Trioxy-9-[3,4-Dioxyphenyl]fluoron. Sm. 227 bis 231° (B. 37, 2733 C. 1904 [2] 542).

C 82,9 \rightarrow H 5,7 \rightarrow O 11,4 \rightarrow M. G. 420.

Benzoat d. α-Oxy-γ-Keto - αβδ-Triphenylbutan. Sm. 147—149°
 (M. 24, 723 C. 1904 [1] 167).

*3) Methylendicotoïn. Sm. 128° (A. 329, 276 C. 1904 [1] 795). C 58,4 — H 4,0 — O 37,6 — M. G. 596. C29H24O8 C29H24O14

1) Cetratasäure. Sm. 178—180° (J. pr. [2] 68, 44 C. 1903 [2] 512). 3) 1,2-Dioxy-1,2,3,4-Tetraphenyl-R-Pentamethylen. Sm. 1710 (B. 36, 936 C. 1903 [1] 1020).

4) Acetat d. 5-Oxy-1,2-Diphenyl-3-[4-Isopropylphenyl]benzol. Sm. 98° (Am. 31, 146 C. 1904 [1] 806). C 83.4 - H 6.5 - N 10.1 - M. G. 417.

1) 2,8-Di[Benzylamido]-3,7-Dimethylakridin (D.R.P. 141297 C. 1903 [1] 1163).

*1) Diäthylester d. αε-Diketo-αγε-Triphenylpentan-βδ-Dicarbonsäure (Enolform). Sm. 115—116° (95° u. Zers.) (Soc. 83, 721 C. 1903 [2] 54; G. 33 [2] 148 C. 1903 [2] 1270). $C_{29}H_{28}O_6$ 2) Diathylester d. isom. $\alpha \varepsilon$ -Diketo- $\alpha \gamma \varepsilon$ -Triphenylpentan- $\beta \delta$ -Dicarbonsäure. Sm. 93—94° (G. 33 [2] 149 G. 1903 [2] 1270). 3) Diäthylester d. isom. $\alpha \varepsilon$ -Diketo- $\alpha \gamma \varepsilon$ -Triphenylpentan- $\beta \delta$ -Dicarbonsäure. Sm. 132° (G. 33 [2] 149 C. 1903 [2] 1270). C 85,7 — H 7,4 — N 6,9 — M. G. 406. $C_{29}H_{30}N_{2}$ 1) Di[Dibenzylamido]methan. Sm. 97° (B. 36, 1199 C. 1903 [1] 1215). 2) 4,4'-Di[Methylbenzylamidophenyl]methan. Sm. 50°. Pikrat (D.R.P. 68665; B. 37, 2676 C. 1904 [2] 443.
3) Phenylimido - α - Phenylamidobenzylidencampher. Sm. 117—118° (Soc. 83, 105 C. 1903 [1] 233, 458). 2) Hexaacetat d. Di[2,4,6-Trioxy-3,5-Dimethylphenyl]methan. Sm. C20 H82 O12 232—233° (M. 25, 671 C. 1904 [2] 1145).
3) Di [6-Amido-4-Benzylamido-3-Methylphenyl]methan. Sm. 157° C29 H32 N4 (D.R.P. 141297 C. 1903 [1] 1163). $C_{29}H_{33}N_3$ C 82,3 - H 7,8 - N 9,9 - M. G. 423. Di[4-Dimethylamidophenyl]-4-Aethylamido-1-Naphtylketon. Sm. 172-173° (C. 1903 [1] 87; B. 37, 1908 C. 1904 [2] 115).
 Di[4-Dimethylamidophenyl]-4-Dimethylamido-1-Naphtylmethan. Sm. 172° (C. 1903 [1] 87). C 64,0 — H 6,6 — O 29,4 — M. G. 544. 1) Diacetat d. Aspidin. Sm. 108° (A. 329, 328 C. 1904 [1] 800). C29H36O10 Aethyläther d. Oxycholestenon. Sm. 165° (C. 1903 [1] 815).
 C 58,0 — H 7,3 — O 34,7 — M. G. 600.
 Abyssinin (C. 1903 [1] 1425).
 C 78,7 — H 10,4 — O 10,9 — M. G. 442.
 Acetat d. Cholestanonol. Sm. 127° (128°) (M. 24, 653 C. 1903 [2] 1235; B. 36, 3755 C. 1903 [2] 1417). $C_{29}H_{44}O_{2}$ C29H44O13 $C_{29}H_{46}O_{8}$ 2) Dimethylester d. Säure $C_{27}H_{42}O_5$. Sm. 113—114° (B. 36, 3757 C. 1903) C29H46O5 [2] 1418). C 81,3 — H 11,2 — O 7,5 — M. G. 428. 1) Propionat d. Phytosterin. Sm. 102,5—103,5° (C. 1903 [2] 125). C20H48O2 2) Verbindung (aus Asclepias syriaca L.). Sm. 55—60° (J. pr. [2] 68, 402

C. 1904 [1] 105). C 78,4 — H 10,8 — O 10,8 — M. G. 444. C29H48O8 1) Verbindung (aus Asclepias syriaca L.) oder C₈₀H₅₀O₈. Sm. 71—75° (*J. pr.* [2] 68, 452 *C.* 1904 [1] 191).

 $\mathbf{C}_{29}\mathbf{H}_{20}\mathbf{O}_4\mathbf{N}_2$

2) Dimethylester d. Säure C₂₇H₄₄O₄ (aus Cholesterin). Sm. 69° (B. 37, $C_{29}H_{48}O_4$ 3097 C. 1904 [2] 1535). Monoäthylester d. Säure C₂₇H₄₄O₄ (aus Cholesterin). Sm. 151° (corr.)
 (B. 36, 3181 C. 1903 [2] 936; B. 37, 3097 C. 1904 [2] 1535).

_ 29 III _

C 78,4 — H 4,5 — O 10,8 — N 6,3 — M. G. 444. $C_{20}H_{20}O_3N_2$ 1) Azin (aus Benzoylmethylmorpholchinon u. o-Toluylendiamin) (B. 31, 3202). • *III, *322*.

C 75,7 — H 4,3 — O 13,9 — N 6,1 — M. G. 460.

1) Dibenzoylderivat d. 4-Oxy-5-Keto-1,3-Diphenyl-4,5-Dihydropyrazol (B. 36, 1137 C. 1903 [1] 1254). 1) s-Di[9-Phenanthryl]thioharnstoff. Sm. 229° (B. 36, 2516 C. 1903

 $C_{29}H_{20}N_2S$ [2] 507). 4) 4-Dimethylamidophenyldinaphtopyran. Sm. 207-208° (C. r. 138, $\mathbf{C}_{29}\mathbf{H}_{23}\mathbf{ON}$

576 C. 1904 [1] 957). C 72,9 — H 4,8 — O 13,4 — N 8,8 — M. G. 477. C29 H28 O4 N8

1) Di[Diphenylamid] d. Acetoximidomalonsäure. Sm. 190° (C. 1904 [1] [1555).

2) \tilde{N} -[2,4,6-Trimethylphenyl]- α' -Phenylpyrophtalin. Sm. 230° (B. 36, $C_{29}H_{24}ON_{2}$ 3923 C. **1904** [1] 98).

2) 4, 4'-Di [Methylcyanamido] -4"-Oxytetraphenylmethan. Sm. 205° C29H24ON4 (B. 37, 643 C. 1904 [1] 951).

 $\mathbf{C}_{29}\mathbf{H}_{24}\mathbf{O}_{8}\mathbf{N}_{2} \ ^{*}1) \ \mathbf{4,4'-Di[Methylbenzoylamidophenyl]keton.} \ \mathrm{Sm.} \ 204^{\,0} \ (102^{\,0}?) \ (B.\ 37, 10.5)$ 2677 C. 1904 [2] 444).

C 75.2 - H 5.4 - O 10.3 - N 9.1 - M. G. 463. $C_{29}H_{25}O_3N_3$

1) Di[Diphenylamid] d. Aethoximidomalonsäure. Sm. 164—165° (C. 1904 [1] 1555).

 Verbindung (aus Pyridin u. Amidoazobenzol). Sm. 159° (J. pr. [2] 69, 132 C. 1904 [1] 816). $\mathbf{C}_{29}\mathbf{H}_{25}\mathbf{N}_{6}\mathbf{Br}$

 α -Keto- $\gamma \varepsilon$ -Dimerkapto- $\alpha \varepsilon$ -Diphenylpentan. C29H26OS2 2) Diphenyläther đ. Sm. 102° (B. 37, 510 C. 1904 [1] 884).

5) Di[Benzoyl-4-Methylphenylamido]methan (B. 37, 3117 C. 1904 [2] $C_{29}H_{26}O_2^{\bullet}N_2$

6) α -Benzoyl- β -[4-Methylbenzoyl]- $\alpha\beta$ -Di[2-Methylphenyl]hydrazin. Sm. 182° (C. r. 137, 714 C. 1903 [2] 1428).
7) 7-Aethyläther d. 2,7-Dioxy-2,3-Diphenyl-1-[2-Methylphenyl]-1,2-

Dihydro-1,4-Benzdiazin. Sm. 1720 (B. 36, 3863 C. 1904 [1] 91).

 $C_{29}H_{26}O_3N_2$ C 77,3 — H 5,8 — O 10,7 — N 6,2 — M. G. 450. 1) Trimethyläther d. 4,4'-Di[4-Oxybenzylidenamido]-2-Oxybiphenyl. Sm. 150° (B. 36, 4078 C. 1904 [1] 268).

 $C_{29}H_{26}O_4N_2$ C 74.7 - H 5.6 - O 13.7 - N 6.0 - M. G. 466. 1) $\beta\beta$ -Di[P-2-Oxybenzylidenamido-4-Oxyphenyl]propan (C. 1904 [2] 1737).

C 67,3 - H 5,2 - O 24,8 - N 2,7 - M. G. 517. $C_{29}H_{27}O_8N$ 1) Diäthylester d. αs -Diketo- γ -[3-Nitrophenyl]- αs -Diphenylpentan- $\beta \delta$ -Dicarbonsäure. Sm. 128—129° (Soc. 83, 722 C. 1903 [2] 55).

 Verbindung (aus Benzidin u. 2,4-Dinitrophenylpyridinchlorid).
 179—180° (J. pr. [2] 68, 261 C. 1903 [2] 1064). $\mathbf{C}_{29}\mathbf{H}_{27}\mathbf{N}_{4}\mathbf{C}1$

C29H28ON 5) 4,4'-Di[Methylbenzylamido]diphenylketon. S:n.1S2° (I). R.P. 72808).

- *III, *150*. $C_{29}H_{28}O_{2}N_{4}$ 3) 4,4'-Di[α -Methyl- β -Phenylureïdophenyl]methan. Sm. 186—187° (B. 37, 2675 C. 1904 [2] 443).

 $C_{29}H_{28}O_5N_8$ C 61,3 - H 4,9 - O 14,1 - N 19,7 - M. G. 568.1) a-Oxydi[4'-Nitro-3-Methylamido-4-Methylazobenzol]methan? Sm.

168—169° (C. 1903 [1] 400). C 65.9 - H 5.3 - O 18.2 - N 10.6 - M. G. 528. $C_{29}H_{28}O_6N_4$

1) 2,2'-Dimethyläther d. Di[2,4,6-Trioxy-3,5-Diphenylazo-3-Methylphenyl]methan. Sm. 245° (A. 329, 285 C. 1904 [1] 796). Methylenbisbenzolazofilicinsäure. Sm. $223-224^{\circ}$ (A. 2) Methylenbisbenzolazofilicinsäure. C. 1904 [1] 797).

 Di[4-Methylphenyläther] d. s-Di[4-Merkapto-2-Methylphenyl]-thioharnstoff. Sm. 151° (J. pr. [2] 68, 286 C. 1903 [2] 995). $C_{29}H_{28}N_2S_8$

 4, 4'-Di[α-Methyl-β-Phenylthioureïdophenyl] methan. Sm. 153°
 (B. 37, 2676 C. 1904 [2] 443).
 C 77,2 — H 6,4 — O 7,1 — N 9,3 — M. G. 451.
 α-[2-Nitrophenyl]-α-α-Di[2-Methyl-1-Aethyl-3-Indolyl] methan. Sm. $C_{29}H_{28}N_4S_2$ $C_{29}H_{29}O_{2}N_{3}$

220—221° (B. 37, 323 C. 1904 [1] 668).

C29H30N2 C 82,4 - H 7,1 - O 3,8 - N 6,6 - M. G. 422.

α-[2-Oxyphenyl]-αα-Di[2-Methyl-1-Aethyl-3-Indolyl]methan.
 α-[2-Oxyphenyl]-αα-Di[2-Methyl-1-Aethyl-3-Indolyl]methan.
 4,4'-Di[Diacetylamido]-3,3'-Dimethyltriphenylmethan.

C29H30O4N2 bis 166° (C. 1904 [2] 227). C29 H31 ON3

2) Di[4-Dimethylamidophenyl] - 4 - Acetylamido - 1 - Naphtylmethan. Sm. 228—229° (C. 1903 [1] 87; B. 37, 1908 C. 1904 [2] 115). $C_{29}H_{81}O_5C1$

1) Chlorhydrin d. Dehydrodioxyparasantonsäuredibenzylester. Sm. 129—130° (C. 1903 [2] 1447). C 74,4 — H 6,8 — O 6,8 — N 12,0 — M. G. 468. $C_{29}H_{32}O_{2}N_{4}$

1) 4,4'-Di[4-Dimethylamidophenylamido]-2,2'-Dioxydiphenylmethan? Sm. 150° (J. pr. [2] 69, 240 C. 1904 [1] 1269).

 $\mathbf{C}_{29}\mathbf{H}_{32}\mathbf{N}_{3}\mathbf{C}1$ 1) Chlorid d. α -Oxy- $\alpha\alpha$ -Di[4-Dimethylamidophenyl]- α -[4-Aethylamido-1-Naphtyl]methan (Neuvictoriablau). Sm. 183-184° (B. 37, 1913 C. 1904 [2] 115).

 $C_{99}H_{36}O_6S_3$ βζζ-Tribenzylsulfon-β-Methylheptan. Sm. 158° (B. 37, 508 C. 1904) $C_{29}H_{87}O_3N_3$ C 73,3 — H 7,8 — O 10,1 — N 8,8 — M. G. 475. 1) Aethylester d. α -Oxy-4', 4"-Di[Dimethylamido]-3-Methyltriphenylmethan-α-Aethyläther-6-Amidoameisensäure. Sm. 170-1720 u. Zers. (B. 36, 2781 C. 1903 [2] 881). $\mathbf{C}_{29}\mathbf{H}_{40}\mathbf{O}_{12}\mathbf{N}_{4}$ \dot{C} 54,7 — H 6,3 — O 30,2 — N 8,8 — M. G. 636. 1) Tetraäthylester d. Hippurylasparagylasparaginsäure. + Stickstoffwasserstoff (Sm. unterhalb 150°) (J. pr. [2] 70, 182 C. 1904 [2] 1397). C 52,2 — H 6,3 — O 28,8 — N 12,6 — M. G. 666. 1) Hydrazitetrahydrazid d. Hippuryldiasparagylasparaginsäure. Sm. $\mathbf{C}_{20}\mathbf{H}_{42}\mathbf{O}_{12}\mathbf{N}_{6}$ 175° u. Zers. (J. pr. [2] 70, 192 C. 1904 [2] 1398). C 73,9 — H 9,5 — O 13,6 — N 3,0 — M. G. 471. 1) Nitrocholesterylacetat. Sm. 101—102° (M. 24, 652 C. 1903 [2] 1235). $C_{20}H_{45}O_4N$ C 71,4 — H 9,2 — O 16,4 — N 2,9 — M. G. 487.

1) Acetat d. Nitrooxycholesterin. Sm. 103—104° (C. 1903 [1] 814). C 71,1 — H 9,6 — O 16,4 — N 2,9 — M. G. 489. $C_{29}H_{45}O_5N$ $C_{20}H_{47}O_{5}N$ 1) Dimethylester d. Oximsäure $C_{27}H_{48}O_5N$. Sm. 76° (B. 36, 3758 C. 1903 [2] 1418). — 29 IV — $\mathbf{C}_{29}\mathbf{H}_{22}\mathbf{O}_3\mathbf{NCl}$ 1) 6 - Chlor - 3 - [2, 4, 6 - Trimethylphenyl]amidofluoran. Sm. 160° (D.R.P. 85885). — *III, 574. $C_{29}H_{23}O_{3}N_{3}S$ 1) 2-Pararosanilinnaphtalin-6-Sulfonsäure (C. 1904 [1] 1013). 1) 2-Naphtalinsulfonat d. 1- α -[2-Naphtylsulfon]amido- β -[4-Oxyphenyl]propionsäure. Na (B. 36, 2605 C. 1903 [2] 619). 1) N-Palmitylphenyl-3,5-Dibrom-2-Oxybenzylamin. Sm. 56—57° C,9H,8O,NS, $\mathbf{C}_{20}\mathbf{H}_{41}\mathbf{O}_{2}\mathbf{NBr}_{9}$ (A. 332, 203 C. 1904 [2] 211). C₂₀H₄₀O₉NJ 1) Jodnethylat d. Isopyroin (C. 1903 [1] 650). C₈₀-Gruppe. 4) Kohlenwasserstoff (aus Guttapercha). Sd. 280-300°₁₈ (C. 1903 [1] 83). C80H48 - 30 II -3) 5,6-Dibenzoat d. 5,6-Dioxy-2-Keto-1-[3,4-Dioxybenzyliden]-1,2-C₈₀H₁₈O₈ Dihydrobenzfuran-3,4-Methylenäther. Sm. 178° (B. 29, 2435). — *III, 534. 2) Diacetat d. Resorcinanthrachinon (B. 36, 2023 C. 1903 [2] 378).
2) Aethylester d. 4,7-Dibenzoxyl-2-Phenyl-1,4-Benzpyran-4-Carbon- $\mathbf{C}_{a_0}\mathbf{H}_{a_0}\mathbf{O}_{\mathbf{6}}$ C30H20O7 säure. Fl. (B. 34, 1953 C. 1903 [2] 296). 4) Acetat d. 4-Oxy-3-Methylphenyldinaphtopyran. Sm. 240° (C. r. 138, $C_{80}H_{22}O_8$ 283 C. 1904 [1] 730).

5) Acetat d. 6 - Oxy - 3 - Methylphenyldinaphtopyran. Sm. 232 - 233° (C. r. 138, 284 C. 1904 [1] 730).

3) Diacetat d. 10-Keto-9,9-Did-Oxyphenyl]-9,10-Dihydroanthracen. C80 H22 O5 Sm. 244.° (B. 36, 2021 C. 1903 [2] 378). C 72,8 — H 4,4 — N 22,7 — M. G. 494. $C_{30}H_{22}N_8$ 1) 1-[4,4'-Biphenylenazo]-2-Phenylimidazol. Zers. bei 260° (B. 37, 700 C. 1904 [1] 1562). 6) Aethyläther d. 6-Oxy-3-Methylphenyldinaphtopyran. Sm. 240 bis 241° (C. r. 138, 284 C. 1904 [1] 730). $\mathbf{C_{80}H_{24}O_{2}}$ 7) 3,4-Dibenzoyl-1,2-Diphenyl-R-Tetramethylen. Sm. 134° (B. 37, 1147 C. 1904 [1] 1266). 8) Acetat d. 9-[a-Oxybenzyl]-10-Benzylanthracen. Sm. 158° (M. 25, 804 *C.* **1904** [2] 1137). C 72,6 — H 4,8 — O 22,6 — M. G. 496. C80H24O7 1) Dichrysarobin. Zers. oberh. 250° (Soc. 81, 1580 C. 1903 [1] 34, 167). *3) Aethyläther d. 9-[α -Oxybenzyl]-10-Benzylanthracen. Sm. 197°. 4 + C₈H₈ (Sm. 217°) (*M*. 25, 802 *C*. 1904 [2] 1137). C 57,5 — H 4,1 — O 38,3 — M. G. 626. 1) Ramalinsäure. Sm. 240—245° (*J. pr.* [2] 68, 24 *C*. 1903 [2] 511). 2) Anchusasäure (Anchusaroth) (*C*. 1903 [1] 1041). C80H28O

C80H26O15 C30H28O8

C 88,7 — H 7,4 — O 3,9 — M. G. 406. C80H80O 1) 5-Oxy-3-Phenyl-1,2-Di[4-Isopropylphenyl] benzol. Sm. 137° (Am. 31, 151 *C.* **1904** [1] 807). C 69,5 — H 5,8 — O 24,7 — M. G. 518. $C_{30}H_{30}O_8$ 1) Dimethyläther d. Tetrajuajakhydrochinon. Sm. 80° (Bl. [3] 31, 189 C. 1904 [1] 939). C 65,5 — H 5,4 — O 29,1 — M. G. 550. C₈₀H₈₀O₁₀ 1) Diacetat d. Verb. $C_{26}H_{26}O_8$. Sm. 80—95° (R. 22, 142 C. 1903 [2] 124). C 84,9 — H 7,5 — Ö 7,5 — M. G. 424. 1) 4-Keto-l-Oxy-2-Phenyl-1,6-Di[4-Isopropylphenyl]-1,2,3,4-Tetrahydrobenzol. Sm. 214° (Am. 31, 150 C. 1904 [1] 807). C30H32O2 $C_{71,4} - H_{6,3} - O_{22,2} - M.G.$ 504. C30H32O7 1) Alkannasäure (Alkannaroth) (C. 1903 [1] 1041). 2) Diacetylderivat d. Triäthylester C₂₆H₃₀O₈. Sm. 104° (M. 24, 85 C₈₀H₈₄O₁₀ C. 1903 [1] 769). C 75,3 — H 7,9 — O 16,7 — M. G. 478.

1) Anhydrid d. Desmotroposantonigen Säure (G. 25 [1] 541). — C30H38O5 *II. 978. C 65,9 - H 7,7 - O 26,4 - M. G. 546.C30H42O9 1) Photosantoninsäure. Sm. 258-260°. Ba, Ag₂ (G. 33 [2] 65 C. 1903 [2] 1182). Sm. 61° (Ar. 241, 487, 489 C. 1903 [2] 1178). 2) Albanan. $C_{80}H_{44}O$ C 82,6 - H 10,1 - O 7,3 - M. G. 436.C30H44O2 1) Sphäritalban. Sm. 152° (Ar. 241, 484 C. 1903 [2] 1178; C. 1904 [1] 517). 2) Isosphäritalban. Sm. 142° (Ar. 241, 489 C. 1903 [2] 1178). C 67,7 - H 8,3 - O 24,0 - M. G. 532.C30H44O8 1) Alkannagrün (C. 1903 [1] 1041). 3) Oktoäthylester d. Hexahydrobenzol-1,1,2,2,4,4,5,5-Oktocarbon-C₃₀H₄₄O₁₆ säure. Sm. 46° (Soc. 83, 782 C. 1903 [2] 201, 439). 1) Verbindung (aus Guttapercha) = $(C_{30}H_{46}O_3)_x$. Sm Sm. 144° (C. 1903 C₈₀H₄₅O₈ [1] 84). *1) Quabain + 9H₂O (Strophantin). Sm. 187-188° (C. 1904 [1] 1277). C30H46O12 4) Amyrinsäure. Sm. 126—127° (Ar. 242, 361 C. 1904 [2] 527).
3) Gratiolon. Na (Ar. 240, 567 C. 1903 [1] 42).
4) Verbindung (aus Ficus magnol. Borci). Sm. 115° (B. 37, 3847 C. 1904). $C_{80}H_{48}O_{2}$ C₈₀H₄₈O₃ [2] 1613). 5) Verbindung (aus Guttapercha) oder C₄₀H₆₄O₄. Sm. 160° (C. 1903) [1] 84). 2) Acocantherin (C. 1903 [2] 886).
*1) α-Amyrin. Sm. 181° (Ar. 241, 155 C. 1903 [1] 1029; Ar. 242, 119 C_{80} \mathbf{H}_{48} O_{18} C₅₀H₅₀O C. 1904 [1] 1011). *2) β-Amyrin. Sm. 192° (Ar. 241, 155 C. 1903 [1] 1029; J. pr. [2] 68, 451 C. 1904 [1] 191; Ar. 242, 120 C. 1904 [1] 1011).
6) Propionat d. Cholesterin. Sm. 98° (B. 37, 3424 C. 1904 [2] 1295). $C_{80}H_{50}O_{2}$ C 71,1 — H 9,9 — O 19,0 — M. G. 506. 1) Sapogenin (Ar. 241, 615 C. 1904 [1] 169). $C_{80}H_{50}O_6$ 1-Dimenthylester d. β^{}_ε-Diketo - δ-Methylheptan-γε-Dicarbonsäure.
 194—196° (Soc. 85, 51 C. 1904 [1] 360, 788). C 58,2 — H 8,1 — O 33,7 — M. G. 618.

1) Hemipolylaktid. Sm. 165° (Bl. [3] 31, 312 C. 1904 [1] 1134).

C 74,7 — H 12,0 — O 13,3 — M. G. 482. $C_{80}H_{50}O_{13}$ CsoHsSO4 1) Dimyristat d. $\alpha\beta$ -Dioxyäthan. Sm. 64°; Sd. 208° (B. 36, 4340)

- 30 III -

C₃₀H₂₀O₂N₂ 3) 4-[2-Naphtylazo]-3,3'-Dioxy-2,2'-Binaphtyl (C. r. 138, 1618 C. 1904 [2] 338). C₃₀H₂₁OP 1) Tri[1-Naphtyl]phosphinoxyd (C. r. 139, 675 C. 1904 [2] 1638). *1) Tri[2-Naphtylester] d. Borsäure. Sm. 116° (B. 36, 2223 C. 1903 [2] 420). 2) Tri[1-Naphtylester] d. Borsäure. Sm. 84—85° (B. 36, 2222 C. 1903

[2] 420).

C. 1904 [1] 433).

- $\begin{array}{c} \mathbf{C}_{30}\mathbf{H}_{22}\mathbf{O}_{6}\mathbf{N}_{2} & \text{C } 71,2 \text{H } 4,3 \text{O } 19,0 \text{N } 5,5 \text{M. G. } 306. \\ 1) \text{ Bisnitrosodibenzoylmethan. Sm. } 125^{\circ} \text{ u. Zers. } (B. 37, 1530 \text{ C. } 1904 \\ [1] \ 1608). & \text{2}) \ \alpha\beta \text{Di}[2 \text{o } \text{Oxybenzylidenamidophenyl}] \\ \text{äthen} \alpha\beta \text{Dicarbons\"{a}ure} \\ (A. 332, 276 \text{ C. } 1904 \text{ [2] } 701). & \text{C}_{30}\mathbf{H}_{22}\mathbf{O}_{6}\mathbf{N}_{6} & \text{C}_{64,0 \text{H } 3,9 \text{O } 17,1 \text{N } 14,9 \text{M. G. } 562.} \\ 1) \ \alpha\gamma \text{Di}[4 \text{Mitrophenylhydrazon}] \beta \text{Phtalyl-}\alpha \text{Phenylbutan. Sm. } 243^{\circ} \\ (B. 37, 581 \text{ C. } 1904 \text{ [1] } 939). & \text{3} \\ \mathbf{C}_{30}\mathbf{H}_{23}\mathbf{ON} & \text{*3}) \ \mathbf{2}, \mathbf{3}, \mathbf{4} \text{Triphenyl-} \mathbf{3}, \mathbf{4} \text{Dihydro-1, } \mathbf{3} \alpha \text{Naphtisoxazin. Sm. } 158^{\circ} \\ (C. r. 138, 1612 \text{ C. } 1904 \text{ [2] } 345). & \text{4} \\ \alpha\gamma \text{Di}[\text{Phenylhydrazon}] \beta \text{Phtalyl-}\alpha \text{Phenylbutan. Sm. } 181^{\circ} \text{ (B. } 37, \\ \mathbf{1}$
- 580 C. 1904 [1] 939). C₃₀H₂₄O₄N₄ 2) 4,8-Di[Acetylamido]-1,5-Di[Phenylamido]-9,10-Anthrachinon. Sm. oberh. 300° (D.R.P. 148767 C. 1904 [1] 557).
- C₃₀H₂₄O₄S₂ 1) Di[4-Aethoxylphenyläther] d. 1,8-Dimerkapto-9,10-Anthrachinon. Sm. 251° (D. R. P. 116951 C. 1901 [1] 210). — *III, 308.

- 1) Verbindung (aus Benzalnitroacetophenon). Sm. 218° u. Zers. (B. 36, 3019 C. 1903 [2] 1001).
- C₈₀H₂₇OCl 1) Verbindung (aus \$\theta\$-Chlor-\$\alpha \gamma\$-Diphenylpropen). Sm. 197° (B. 37, 1144 C. 1904 [1] 1266). C₈₀H₂₈ON₂ C 83,3 H 6,5 O 3,7 N 6,5 M. G. 432.
- 1) 9,9-Di[4-Dimethylamidophenyl]-10-Keto-9,10-Dihydroanthracen. Sm. 278° (C. r. 136, 536 C. 1903 [1] 837).
- $C_{30}H_{28}O_2N_2$ 11) 4,4'-Di[Benzoyläthylamido]biphenyl. Sm. 184,5—185,5 (C. 1903 [1] 1128; B. 35, 4184 C. 1903 [1] 143).
- 12) 3, 4-Methylenäther d. α -[3, 4-Dioxyphenyl]- $\alpha\alpha$ -Di[2-Methyl-1-Aethyl-3-Indolyl]methan. Sm. 175° (B. 37, 323 C. 1904 [1] 668). C₈₀H₂₈O₂N₄ 4) 1,5-Di[Methylamido]-4,8-Di[4-Methylphenylamido]-9,10-Anthra-
- C₈₀H₂₈O₂N₄
 d) 1,5-Di[Methylamido]-4,8-Di[4-Methylphenylamido]-9,10-Anthrachinon (D.R.P. 139581 C. 1903 [1] 680).
 C₈₀H₂₈O₈N₂
 5) 3-Aethyläther d. 4,4'-Di[4-Methoxylbenzylidenamido]-3-Oxybiphenyl. Sm. 146—147° (B. 36, 4073 C. 1904 [1] 267).
- $\begin{array}{c} \textbf{C}_{30}\textbf{H}_{28}\textbf{N}_{4}\textbf{S} & \textbf{1)} & \textbf{3.5-Di[4-Methylphenylimido]-2,4-Diphenyltetrahydro-1,2,4-Thiodiazol.} & \textbf{Sm. } 139\,^{\circ}~(B.~36,~3133~C.~1903~[2]~1071).} \\ \textbf{C}_{30}\textbf{H}_{29}\textbf{ON}_{8} & \textbf{C}~80,5~-\textbf{H}~6,5~-\textbf{O}~3,6~-\textbf{N}~9,4~-\textbf{M}.~G.~447.} \end{array}$
- $C_{80}H_{29}ON_8$ C 80,5 H 6,5 O 3,6 N 9,4 M. G. 447. 1) Hydroxylaminderivat d. Base $C_{30}H_{30}O_2N_2$. Sm. 210° (C. r. 137, 608 C. 1903 [2] 1180).
- $C_{80}H_{29}O_{9}N$ C 65,8 H 5,3 O 26,3 N 2,6 M. G. 547. 1) Alumidin. Sm. 234° (C. 1903 [1] 1142).
- C₈₀H₂₉O₁₁N₈ C 59,3 H 4,8 O 29,0 N 6,9 M. G. 607. 1) Diäthylester d. β -Keto- $\alpha\alpha\gamma$ -Tri[4-Nitrobenzyl]propan- $\alpha\gamma$ -Dicarbonsäure. Sm. 167,5—168,5° (B. 37, 1995 C. 1904 [2] 27).
- $\begin{array}{c} \textbf{C}_{80}\textbf{H}_{80}\textbf{O}_2\textbf{N}_2 & \textbf{C} & 80,0 & \textbf{H} & 6,7 & \textbf{O} & 7,1 & \textbf{N} & 6,2 & \textbf{M}. & \textbf{G}. & 450. \\ \textbf{1)} & \textbf{2}-\textbf{Dimethylamido-9,10-Dioxy-9-Phenyl-10-[4-Dimethylamido-phenyl]-9,10-Dihydroanthracen.} & \textbf{Sm. } 140^{\circ} & \textbf{(C. } r. & 137, & 608 & \textbf{C. } & \textbf{1903} \\ \end{array}$
- C₈₀H₈₀O₈N₂ [2] 1180). C 70,0 — H 5,8 — O 18,7 — N 5,4 — M. G. 314. 1) Dibenzoylisatyd. Sm. 186° (B. 37, 945 C. 1904 [1] 1217).
- C₃₀H₈₁O₈N₃ C 64,2 H 5,5 O 22,8 N 7,5 M. G. 561. 1) Triäthylester d. 2,5-Dimethylpyrrol-1-Phenylazobenzoylbrenztraubensäure-3,4-Dicarbonsäure. Sm. 122° (B. 36, 396 C. 1903) [1] 723).

C₃₀H₃₄N₆S₉Si

C 82,0 — H 7,5 — O 7,3 — N 3,2 — M. G. 439. $C_{30}H_{33}O_{2}N$ 1) 4-Oximido-1-Oxy-2-Phenyl-1, 6-Di[4-Isopropylphenyl]-1, 2, 3, 4-Tetrahydrobenzol. Sm. 208° (Am. 31, 150 C. 1904 [1] 807). 2) Verbindung (aus Parasantoninhydroxamsäure). Sm. 258° (C. 1903 [2] $\mathbf{C}_{80}\mathbf{H}_{36}\mathbf{O}_5\mathbf{N}_2$ 1377). 2) Aethylester d. α -Oxy-4,4'-Di[Diäthylamido]triphenylmethan- $C_{30}H_{38}O_3N_2$ 2"-Carbonsäure (D.R.P. 98863). — *II, 1019. C 68,7 — H 7,6 — O 18,3 — N 5,3 — M. G. 524. 1) Hydrazon d. Santonsäure. Sm. 206—207° (G. 33 [1] 198 C. 1903 C₃₀H₄₀O₆N₂ [2] 45). $C^{1}64,5$ — H 7,5 — O 22,9 — N 5,0 — M. G. 558. C₈₀H₄₂O₈N₂ 1) Sesquicamphorylhydroxylamin. Sm. 256° (C. 1903 [1] 1410; Soc. 83, 954 C. 1903 [2] 665). C 54,0 — H 6,3 — O 31,2 — N 8,4 — M. G. 666. 1) Nukleotin. Ba₄ + 11 H₂O (C. 1904 [2] 134). *1) Emetin (C. 1903 [1] 92). C₃₀H₄₂O₁₃N₄ $\mathbf{C}_{90}\mathbf{H}_{44}\mathbf{O}_{4}\mathbf{N}_{2}$ 1) Dilaurat d. 2,3,5,6 - Tetrachlor - 1,4 - Dioxybenzol. Sm. 83-840 $C_{30}H_{46}O_4Cl_4$ (Bl. [3] 29, 1123 C. 1904 [1] 259). C 79,5 — H 10,4 — O 7,0 — N 3,1 — M. G. 453. 1) Acetylphenylamid d. Behenolsäure. Sm. 45° (B. 36, 3602 C. 1903 $C_{30}H_{47}O_{2}N$ [2] 1314). *1) Salmin. 2(2 HCl, PtCl₄) (*H*. 37, 95 *C*. 1903 [1] 236). C 47,2 — H 8,1 — O 18,9 — N 25,7 — M. G. 762. 1) Clupein. 2(2 HCl, PtCl₄) (*H*. 37, 99 *C*. 1903 [1] 236). C₈₀H₅₇O₆N₁₇ C₈₀H₆₂O₉N₁₄ - 30 IV - $C_{80}H_{18}O_{3}NC1$ 1) 6-Chlor-3-[1-Naphtyl]amidofluoran. Sm. 196° (D.R.P. 85885). -- *III, 574. 2) 6-Chlor-3-[2-Naphtyl]amidofluoran. Sm. 216° (D.R.P. 85885). - *III, 574. 1) α -Trinaphtalinsulfhydroxylamin. Zers. bei 270—280° (G. 33 [2] $C_{80}H_{21}O_7NS_8$ 311 C. 1904 [1] 288). 1) $\alpha \gamma$ -Di[4-Bromphenylhydrazon]- β -Phtalyl- α -Phenylbutan. Sm. $\mathbf{C}_{30}\mathbf{H}_{22}\mathbf{O}_{2}\mathbf{N}_{4}\mathbf{Br}_{2}$ 201° (B. 37, 581 C. 1904 [1] 940). 1) Tri[4-Chlorbenzoyl]adrenalin. Sm. 75° (B. 37, 4151 C. 1904 [2] C₈₀H₂₂O₆NCl₃ 1) Tribenzoylacetonylsiliciumchlorid. + FeCl₃, + AuCl₃ (B. 36, C₃₀H₂₇O₆ClSi 1596 C. 1903 [2] 30). 3) Di[4-(4-Methylphenyl)merkapto-2-Methylphenylamid] d. Oxalsaure. Sm. 198—199° (J. pr. [2] 68, 284 C. 1903 [2] 995).
4) Di[4-(4-Methylphenyl)merkapto-3-Methylphenylamid] d. Oxalsaure. Sm. 2002° (J. pr. [2] 68, 284 C. 1903° [3] 2005° [3 C30H28O2N28 säure. Sm. 207° (J. pr. [2] 68, 291 C. 1903 [2] 995). $C_{80}H_{28}O_{2}N_{2}Se_{2}$ 1) Di[Phenylbenzylamid] d. Dimethyldiselenid- $\alpha\alpha'$ -Dicarbonsäure. Sm. 81° (Ar. 241, 220 C. 1903 [2] 104). Chrysopheninsäure. Na, (B. 36, 2975 C. 1903 [2] 1031).
 Diäthylbrillantgelb (B. 36, 2976 C. 1903 [2] 1031).
 Tetra[Phenylhydrazid] d. Dimethylsulfid-ααββ-Tetracarbonsäure. Sm. 120° (B. 36, 3725 C. 1903 [2] 1416). C30 H28 O8 N4 S $\mathbf{C_{30}H_{30}O_4N_8S}$

C₂₁-Gruppe.

1) Verbindung (aus Aethylsenföl u. Silikotetraphenylamid) (Soc. 83, 254 C. 1903 [1] 572, 875).

 $C_{81}H_{64}$ *1) Hentriakontan. Sm. 67-68° (C. 1903 [2] 893; 1904 [2] 1418).

— 31 II —

 $\mathbf{C}_{21}\mathbf{H}_{20}\mathbf{O}_2$ *1) Naphtyloldinaphtopyran (Tri[2-Oxynaphtyl]methanoxyd). Sm. 273° (C. r. 137, 860 C. 1904 [1] 104). $C_{31}H_{22}O$ 2) isom. α-Oxytri[P-Naphtyl]methan (B. 37, 1638 C. 1904 [1] 1649).

 $C_{31}H_{24}O$ C 90,3 - H 5,8 - O 3,9 - M. G. 412.1) α-Keton (aus Anhydroacetondibenzil). Sm. 187-188° (Soc. 69, 744). *III, 206. 2) β-Keton (aus Anhydroacetondibenzil). Sm. 155-159 (Soc. 69, 744). - *III. 206. C31 H24 N 3) 4 - Phenylimido - 1 - [4 - Phenylamidodiphenyl] methylen - 1, 4 - Dihydrobenzol (p-Phenylamidofuchsonphenylimin). Sm. 166—168°. Pikrat (B. 37, 2866 C. 1904 [2] 776).

2) Pentaphenylguanidin. Sm. 177—179°. (2HCl, PtCl₄) (B. 37, 965 C31 H25 N3 C. 1904 [1] 1002). C 73,0 — H 5,1 — O 21,9 — M. G. 510. $C_{31}H_{26}O_{7}$ 1) Methyläther d. Dichrysarobin. Sm. 160° (Soc. 81, 1582 C. 1903 [1] 34, 167). C31 H27 N C 90,1 - H 6,5 - N 3,4 - M. G. 413.1) Verbindung (aus 2-Keto-1,3-Dibenzyliden-R-Pentamethylen). Sm. 237° (B. 36, 1500 C. 1903 [1] 1351). C 66,4 — H 5,0 — O 28,6 — M. G. 560. C31H28O10 1) Nataloresinotannol-p-Cumarsäureester (Ar. 239, 238). — *III, 418. 2) Ugandaaloresinotannol-p-Cumarsäureester (Ar. 239, 247). — *III, 419. 2) Pentaacetat d. Barbaloïn. Sm. 166,4° (C. 1903 [1] 234).
2) 4 - Dimethylamidophenyldi [4 - Methylamido - 1 - Naphtyl] methan $C_{31}H_{30}O_{14}$ $C_{81}H_{81}N_{8}$ (B. 37, 1910 C. 1904 [2] 115). 2) Diffusin. Sm. 135° (A. 327, 321 C. 1903 [2] 508). C 83,4 — H 9,4 — O 7,2 — M. G. 446. C81 H88 O10 C₈₁H₄₂O₂ C 83,4 — H 9,4 — O 7,2 — M. G. 440.

1) Benzoat d. Alstol. Sm. 254° (B. 37, 4111 C. 1904 [2] 1656).

C 82,7 — H 10,2 — O 7,1 — M. G. 450.

1) Verbindung (aus Asclepias syriaca L.). Sm. 135—136° (J. pr. [2] 68, 400 C. 1904 [1] 105).

C 74,1 — H 10,0 — O 15,9 — M. G. 502.

1) Gratiogenin. Sm. 198° (Ar. 240, 566 C. 1903 [1] 42). C31 H46 O2 $C_{81}H_{50}O_{5}$ C 71,5 — H 10,0 — O 18,5 — M. G. 520. $C_{31}H_{52}O_6$ 1) l-Dimenthylester d. $\beta\zeta$ -Diketo- δ -Aethylheptan- $\gamma\varepsilon$ -Dicarbonsäure. Sm. 201—207° (Soc. 85, 52 C. 1904 [1] 360, 788). - 31 III - $C_{31}H_{23}ON$ C 87,5 — H 5,4 — O 3,7 — N 3,3 — M. G. 425. Verbindung (aus Benzylidenacetophenon). Sm. Soc. 85, 1359 C. 1904 [2] 1646).
 C 84,4 — H 5,2 — O 7,2 — N 3,2 — M. G. 441. Sm. 249° (B. 28, 962; $C_{31}H_{23}O_{2}N$ 2-Benzoyl-1,3-Diphenyl-1,3-Dihydro-4,2-β-Naphtisoxazin. Sm. 224 bis 225° (G. 33 [1] 20 C. 1903 [1] 926). *1) Monobenzyläther d. 4,4'-Di[4-Oxyphenylazo] biphenyl (B. 36, 2975) C₈₁H₂₄O₂N₄ O. 1903 [2] 1031).
C 78,3 — H 5,3 — O 13,5 — N 2,9 — M. G. 475.
Dibenzoat d. Apomorphin. Sm. 156—158° (B. 35, 4383 C. 1903 [1] C31 H25 O4N C 71,1 - H 4,8 - O 21,4 - N 2,7 - M. G. 523.C31 H25 O7 N C 11,1 — I1 4,0 — O 21,4 — N 2,7 — M. G. 525.
Aethylester d. 6-Benzoylamido-3,5-Dibenzoxyl-1-Methylbenzol-2-Carbonsäure. Sm. 222,5° (B. 37, 1420 C. 1904 [1] 1417).
Nitrosoderivat d. Verb. C₃₁H₂₇N. Sm. 210—215° u. Zers. + C₂H₄O₂ (B. 36, 1502 C. 1903 [1] 1351).
C 81,2 — H 5,7 — O 7,0 — N 6,1 — M. G. 458.
C 81,2 — H 5,7 — O 7,0 — N 6,1 — M. G. 458. CatH26ON2 $C_{31}H_{28}O_2N_2$ 1) γ -Keto- $\alpha\beta\gamma$ -Triphenyl- α -[5-Keto-3-Methyl-1-Phenyl-4,5-Dihydro-

 $C_{31}H_{26}O_{9}N_{4}$ C $C_{31}H_{26}O_{14}Cl_{4}$ 2) Pentaacetat d. Tetrachlorbarbaloïn. Sm. 166,4° (C. 1903 [1] 235; Bl. [3] 21, 674). — *III, 453. C 86,7 — H 6,3 — O 3,7 — N 3,3 — M. G. 429.

C₈₁H₂₇ON

1) 4 - Diäthylamidophenyldinaphtopyran. Sm. 230-231° (C. r. 138, 577 C. 1904 [1] 957).

C 69,3 — H 5,0 — O 17,9 — N 7,8 — M. G. 537.

1) Di[Phenylamidoformiat] d. Benzoylepinephrin. H₂SO₄ (B. 36, 1846 C. 1903 [2] 303). — *III, 667. $C_{31}H_{27}O_6N_3$ 1) Verbindung (aus der Verb. C₃₁H₂₇N). Sm. oberh. 300° (B. 36, 1501

C₈₁H₂₇NBr₉

C. 1903 [1] 1351).
C 78,1 — H 5,9 — O 10,1 — N 5,9 — M. G. 476.
1) Verbindung (aus Desoxybenzoïn u. 5-Keto-3-Methyl-4-Benzyliden-1- $C_{31}H_{28}O_3N_2$ Phenyl-4,5-Dihydropyrazol). Sm. 195° (B. 36, 2128 C. 1903 [2] 365).

C 75,9 - H 6,1 - O 6,5 - N 11,4 - M. G. 490. C₃₁H₃₀O₂N₄ 1) 3-Nitro-4-Dimethylamidophenyldi [4-Methylamido-1-Naphtyl]methan (B. 37, 1911 C. 1904 [2] 115).

2) Di[Benzoyl-4-Aethoxylphenylamido]methan. Sm. 83-840 (B. 37, $C_{81}H_{30}O_4N_2$ 3117 C. 1904 [2] 1316).

2) α-Keto-γε-Dibenzylsulfon-αε-Diphenylpentan (B. 37, 510 C. 1904 C31H30O5S2 [1] 884).

 $C_{s1}H_{s0}N_{s}Cl$ 1) Chlorid d. α -Oxy- α -[4-Dimethylamidophenyl]- $\alpha\alpha$ -Di[4-Methylamido-1-Naphtyl]methan (B. 37, 1913 C. 1904 [2] 116). $C_{s_1}H_{s_1}ON_s$

C 80,7 — H 6,7 — O 3,5 — N 9,1 — M. G. 461. 1) Hydroxylaminderivat d. Base $C_{31}H_{92}O_2N_2$. Sm. 245° (C. r. 137, 608 C. 1903 [2] 1180).

 $\mathbf{C_{31}H_{31}O_{2}N_{3}}$ C 78,0 — H 6,5 — O 6,7 — N 8,8 — M. G. 477. 1) Verbindung (aus d. Verbind. C₃₁H₃₃O₃N₂). Sm. 203° (C. r. 138, 212 C. 1904 [1] 663).

 $\mathbf{C_{31}H_{32}ON_{2}}$ C 78,2 - H 6,7 - O 3,4 - N 11,7 - M. G. 476.1) Acetylderivat d. Phenylimido- α -Phenylamidobenzylidencampher.

C31H32O2N2 amidophenyl]-9,10-Dihydroanthracen. Sm. $163-164^{\circ}$ (C. r. 137,

608 C. 1903 [2] 1180). C 77,5 — H 6,7 — O 10,0 — N 5,8 — M. G. 480. C31H32O3N2 1) 94-Methyläther d. 9,10-Dioxy-2-Dimethylamido-9-[4-Oxyphenyl]-10-[4-Dimethylamidophenyl]-9,10-Dihydroanthracen. Sm. 1760 (C. r. 138, 212 C. 1904 [1] 663).

C 75,3 — H 6,9 — O 6,5 — N 11,3 — M. G. 494. 1) Di[4-Dimethylamidophenyl]-3,4-Di[Acetylamido]-1-Naphtylme- $C_{31}H_{34}O_{2}N_{4}$

than. Sm. 258-259° (C. 1903 [1] 88; B. 37, 1910 C. 1904 [2] 115). C 66,2 - H 6,0 - O 22,8 - N 5,0 - M. G. 562. C₃₁H₃₄O₈N₉

1) Tetraacetat d. 4', 4"-Di[Dimethylamido] - 3, 4, 2', 2"-Tetraoxytriphenylmethan. Sm. 165-167° (B. 36, 2919 C. 1903 [2] 1065). $\mathbf{C}_{81}\mathbf{H}_{84}\mathbf{N}_{8}\mathbf{C}\mathbf{1}$

1) α -[2-Chlor-4-Dimethylamidophenyl]- $\alpha\alpha$ -Di[2-Methyl-1-Aethyl-1-3-Indolyl]methan. Sm. 219° (B. 37, 323 C. 1904 [1] 668). C 69,5 — H 6,9 — O 20,9 — N 2,6 — M. G. 535. $\mathbf{C}_{\mathbf{3}1}\mathbf{H}_{\mathbf{3}7}\mathbf{O}_{\mathbf{7}}\mathbf{N}$

1) Aspidinanilid. Sm. 132° (A. 329, 330 C. 1904 [1] 800). C 63,9 — H 6,3 — O 27,4 — N 2,4 — M. G. 583.
1) Diacetylcevin. Sm. 190° (B. 37, 1952 C. 1904 [2] 126).
1) Diäthylester d. Säure C₂₇H₄₃O₄Cl. Sm. 142—143° (B. 37, 3705 C. 1904 $C_{31}H_{47}O_{10}N$

C₃₁H₅₁O₄Cl [2] 1699).

— 31 IV —

 $C_{31}H_{43}O_3NBr_2$ 1) 2-Acetat d. N-Palmitylphenyl-3,5-Dibrom-2-Oxybenzylamin. Sm. 64-65° (A. 332, 203 C. 1904 [2] 211).

Can-Gruppe.

- $\mathbf{C}_{32}\mathbf{H}_{24}$ 5) 1,4-Di[Diphenylmethylen]-1,4-Dihydrobenzol. Sm. 239-242° (B. 37, 1469 C. 1904 [1] 1342).
 - 6) 9,9,10-Triphenyl-9,10-Dihydroanthracen. Sm. 220° (C. r. 139, 11 C. 1904 [2] 530).
- $C_{32}H_{26}$ 3) 1,4-Di[Diphenylmethyl]benzol. Sm. 172° (B. 37, 2006 C. 1904 [2] 225).

32 II —

- $C_{82}H_{20}O_4$ C 82,0 - H 4,3 - O 13,7 - M. G. 468.
 - 1) Dibenzoat d. 1,2 Dioxychrysen. Sm. 241-242° (D.R.P. 151981 C. 1904 [2] 167).
- $C_{99}H_{20}O_8$ *1) Tribenzoat d. Purpurogallin. Sm. 212-2130 (Soc. 83, 195 C. 1903
- C32H24O 4) 10 - Oxy - 9,9,10 - Triphenyl - 9,10 - Dihydroanthracen. Sm. 200% $+ (C_2H_5)_2O(C. r. 139, 10 C. 1904 [2] 530).$
- 5) α -Dehydroisodypnopinakolin. Sm. 174,5° (*J.* 1904 [1] 1258). 4) Bisanhydrooxydiphenacyl. Sm. 279° (*B.* 36, 2422 *J.* 1903 [2] 502). 5) Isobisanhydrooxydiphenacyl. Sm. 279° (*B.* 36, 2424 *J.* 1903 [2] 502). C₃₂H₉₄O₄
- 1, 4 Di [α Chlordiphenylmethyl] benzol.
 C. 1904 [2] 225). $C_{89}H_{24}Cl_2$ Sm. 247° (B. 37, 2003
- $\mathbf{C_{82}H_{24}Br_{2}}$ 1) 1,4-Di[α -Bromdiphenylmethyl]benzol. Sm. 270—272° (B. 37, 1469) C. 1904 [1] 1342).
- *4) α-Isodypnopinakolin. Sm. 134,5° (C. 1903 [1] 880; 1904 [1] 1258). $C_{82}H_{26}O$ *9) α-Homodypnopinakolin. Sm. 162° (C. 1903 [1] 880).
- $\mathbf{C}_{82}\mathbf{H}_{26}\mathbf{O}_{8}$ 3) 1,4-Di[α -Oxydiphenylmethyl]benzol. Sm. 169 $^{\circ}$ (B. 37, 2003 C. 1904) [2] 225).
- C82H26O4 3) Dibenzoat d. o-Dioxyreten. Sm. 231—2320 (D.R.P. 151981 C. 1904 [2] 167)
- $C_{82}H_{28}N_2$ 4) 1,3-Di[Diphenylamidomethyl] benzol. Sm. 116° (B. 36, 1676 C. 1903
- C82 H80 O10 $0^{\circ}66,9$ — H 5,2 — O 27,9 — M. G. 574. 1) Diacetat d. Tetraguajakhydrochinon. Sm. 155-160° (C. r. 137, 1272 C. 1904 [1] 445). C 85,7 — H 7,1 — O 7,1 — M. G. 448.
- $C_{82}H_{82}O_{2}$ 1) Acetat d. 5-Oxy-3-Phenyl-1, 2-Di[4-Isopropylphenyl]benzol. Sm. 122° (Am. 31, 151 C. 1904 [1] 807).
- C 64,9 H 5,4 O 29,7 M. G. 592. 1) Triacetat d. Verbindung $C_{26}H_{26}O_{3}$. Sm. 110° (R. 22, 142 C. 1903) C82H32O11 2] 124).
- Sm. 204-205° u. Zers. (C. 1903 [1] 883; C. r. 136, 386 C89 H89 O19 2) Tetrarin. C. 1903 [1] 722). C 76,8 — H 6,4 — N 16,8 — M. G. 500.
- $C_{82}H_{82}N_6$ 1) 3,3'-Di[Benzylidenamido]-2,2'-Diphenyl-1,1'-Bitetrahydroimidazol. Sm. 138° (J. pr. [2] 67, 144 C. 1903 [1] 865).
- C 70,3 H 6,2 O 23,4 M. G. 546. 1) Benzoat d. Verb. $C_{20}H_{30}O_7$. Sm. 140—142° (4. 329, 334 C. 1904) C82H84O8 [1] 800).
- C 74,4 H 7,0 O 18,6 M. G. 516. Cas Han On 2) Dibenzoylembeliasäure. Sm. 97—98° (Ar. 238, 21). — *II, 1236. C 69,5 — H 7,2 — O 23,2 — M. G. 552.
 1) Dilakton d. Acetylphotosantoninsäure. Sm. 199—201° (G. 33 [2] CasH40Os
- 68 C. 1903 [2] 1182). C 83.8 - H 9.2 - O 7.0 - M. G. 458. $C_{32}H_{42}O_2$
- 1) Verbindung (aus Campher). Sm. 176° (B. 36, 2627 C. 1903 [2] 626). C 73.6 H 8.0 O 18.4 M. G. 522. $C_{82}H_{42}O_{6}$
- 1) $\alpha\beta$ -Dibenzoat- γ -Myristat d. $\alpha\beta\gamma$ -Trioxypropan. Sm. 65° (B. 36, 4343 C. 1904 [1] 434). $C_{32}H_{48}O_4$
- C 77,4 H 9,7 O 12,9 M. G. 496. 1) α -Masticonsäure. Sm. 96—96,5° (Ar. 242, 108 C. 1904 [1] 1010). 2) β -Masticonsäure. Sm. 91—92° (Ar. 242, 109 C. 1904 [1] 1010).
- *3) Acetat d. β-Amyrin. Sm. 239—240° (J. pr. [2] 68, 449 C. 1904 [1] 191). $C_{32}H_{52}O_2$ 5) Acetat d. p-Amyrin. Sm. 259—240° (J. pr. [2] 00, 440 U. 1804 [1] 151).

 5) Verbindung (aus Asclepias syriaca L.). Sm. 215—216° (J. pr. [2] 68, 455 C. 1904 [1] 191).

 C 64,4 — H 8,7 — O 26,8 — M. G. 596.

 1) Digitophyllin. Sm. 230—232° u. Zers. (Ar. 235, 426). — *III, 439.

 C 71,9 — H 10,1 — O 18,0 — M. G. 534.
- C82H52O10 C₈₂H₅₄O₆
 - 1) l-Dimenthylester d. $\beta\zeta$ -Diketo- δ -Propylheptan- γs -Dicarbonsäure. Sm. 184° (Soc. 85, 53° C. 1904 [1] 360, 788).

C₈₃H₄₀O₁₉ C 53,5 - H 5,4 - O 41,1 - M. G. 740. 1) Robinin $+\frac{1}{2}(7^{1}/2)H_{2}O$. Sm. 195° (C. 1904 [1] 1609; Ar. 242, 220 C. 1904 [1] 1651).

*1) Benzoat d. Lupeol. Sm. 265-266° (262°) (H. 41, 474 C. 1904 [1] $C_{93}H_{46}O_{9}$ 1652; B. 37, 3442 C. 1904 [2] 1307; B. 37, 4107 C. 1904 [2] 1655).

5) Benzoat d. Phytosterin. Sm. 145-145,5° (C. 1903 [2] 125). $\mathbf{C_{38}H_{48}O_{2}}$ 6) Verbindung (aus Asclepias syriaca L.). Sm. 163—164° (*J. pr.* [2] 68, 408 C. 1904 [1] 105). C 83,6 — H 10,5 — N 5,9 — M. G. 474.

 $\mathbf{C_{33}H_{50}N_2}$ 1) Phenylhydrazon d. Cholestenon. Sm. 142-152° (B. 37, 3100 C. 1904

2) trim. Aldehyd d. Dekan-α-Carbonsäure. Sm. 46-47°; Sd. 125°, $C_{83}H_{66}O_3$ (Bl. [3] 29, 1203 C. 1904 [1] 355).

- 33 III -

C 76,0 - H 3,6 - O 12,3 - N 8,1 - M. G. 521. $C_{83}H_{19}O_4N_3$

Dibenzoat d. α-Diphenylenpyridindiketondioxim. Sm. 250° u. Zers.

(G. 33 [2] 160 C. 1903 [2] 1273). C 73,7 — H 3,5 — O 14,9 — N 7,8 — M. G. 537. $C_{33}H_{19}O_5N_3$ Dibenzoat d. Methenylbisindandiontrioximanhydrid. Sm. 280° u. Zers. (G. 33 [2] 159 C. 1903 [2] 1273).
 C 59,9 — H 3,5 — O 21,8 — N 14,8 — M. (‡. 661.

 $\mathbf{C_{88}H_{28}O_{9}N_{7}}$ 1) 2,4,4'-Tri[4-Nitrobenzoylamido]diphenylamin + H₂O. Sm. 180 bis

190° (303—304° wasserfrei) (B. 37, 1071 C. 1904 [1] 1273). C 81,7 — H 5,5 — O 9,9 — N 2,9 — M. (†. 485. 1) Tri[2-Oxy-1-Naphtylmethyl]amin. Sm. 164°. HCl, Acetat (G. 34 C₈₈H₂₇O₈N [1] 214 C. 1904 [1] 1522).

C38H27O5N $C^{76,6} - H_{5,2} - O_{15,5} - N_{2,7} - M_{.}$ (4. 517. 1) Dibenzoat d. Acetylapomorphin. Sm. 156-158 (B. 35, 4385 C. 1903

[1] 338). C 84,6 — H 6,0 — O 3,4 — N 6,0 — M. G. 468. $C_{83}H_{28}ON_2$ 1) α-Benzoyl-αβ-Di[Diphenylmethyl]hydrazin. Sm. 155° (J. pr. [2] 67, 189 C. 1903 [1] 875). C 76,3 — H 5,6 — O 15,4 — N 2,7 — M. (4. 519.

 $C_{38}H_{29}O_5N$ 1) Methyläther d. Dibenzoylthebenin. Sm. 159° (B. 37, 2787 C. 1904 [2] 716).

 $0^{63}, 0^{6$ C₈₃H₈₀O₉N₄ 1) Tetra[Phenylamidoformiat] d. l-Arabinose. Sm. 250—255° u. Zers. (C. r. 138, 634 C. 1904 [1] 1068).

2) Tetra[Phenylamidoformiat] d. 1-Xylose. Sm. 265-270° (C. r. 138, 634 C. 1904 [1] 1068). C 71,6 — H 5,6 — O 20,2 — N 2,5 — M. G. 553.

C33H31O7N 1) Dibenzoyllaurotetanin. Sm. 1946 (Ar. 236, 619). - *III, 661.

 $C_{33}H_{32}N_3Cl~*1)~Chlorid~d.~\alpha-Oxy-\alpha\alpha-Di[4-Dimethylamidophenyl]-\alpha-[4-Phenyl-Phen$ amido - 1 - Naphtyl] methan (Victoriablau B) (D.R.P. 27789, 29962; B. 37, 1913 C. 1904 [2] 115). C 76,5 — H 6,5 — O 6,2 — N 10,8 — M. G. 518.

C33H34O2N4 1) 3-Nitro-4-Dimethylamidophenyldi [4-Aethylamido-1-Naphtyl]methan. Sm. 200° (C. 1903 [1] 88; B. 37, 1911 C. 1904 [2] 115).

1) γ -Keto- α s-Dibenzylsulfon- α s-Diphenyl- $\beta\delta$ -Dimethylpentan. 209—210° (B. 37, 509 C. 1904 [1] 884). $C_{83}H_{34}O_5S_2$ $C_{33}H_{34}O_8N_8$

C 59,1 — H 5,1 — O 19,1 — N 16,7 — M. G. 670.

1) Hydrazidianilid d. Hippurylasparagylasparaginsäure. Zers. bei 147° (J. pr. [2] 70, 191 C. 1904 [2] 1397).

1) Chlorid d. α -Oxy- α -[4-Dimethylamidophenyl] - $\alpha\alpha$ -Di[4-Aethyl- $C_{33}H_{34}N_8C1$ amido-l-Naphtyl]methan (B. 37, 1914 C. 1904 [2] 116).

C 59,2 — H 5,2 — O 33,5 — N 2,1 — M. G. 669.

1) Tetraacetat d. 4-Nitrobenzylidendivanillindimethyläther. Sm. C33H35O14N

186—188° (B. 36, 3976 C. 1904 [1] 373). C 80,7 — H 10,0 — O 6,5 — N 2,8 — M. G. 491. 1) Phenylamidoformiat d. Cholesterin. Sm. 168—169° (Bl. [3] 31, 71 $C_{89}H_{49}O_{2}N$ C. 1904 [1] 578).

C 76,3 - H 9,4 - O 6,2 - N 8,1 - M. G. 519. $C_{93}H_{49}O_2N_3$ 1) 4-Nitrophenylhydrazon d. Cholestenon. Sm. 160-1950 (B. 37, 3100 C. 1904 [2] 1535). C 74,0 — H 9,2 — O 9,0 — N 7,8 — M. G. 535.

 $C_{33}H_{49}O_3N_3$ 1) 4-Nitrophenylhydrazon d. Cholestanonol. Sm. 195 $^{\rm o}$ (194 $^{\rm o}$). + C₂H₆O (M. 24, 655 C. 1903 [2] 1236; B. 36, 3755 C. 1903 [2] 1417).

- 33 IV -

*1) Monobenzyläther d. Stilbendisulfonsäuredisazophenol (B. 36, C33H26O8N4S2 2977 C. 1903 [2] 1031).

-- 33 V -

1) Phosphoryltri[1-Naphtylthioharnstoff] (Soc. 85, 367 C. 1904 CasHarON,SaP [1] 1407).

C₈₄-Gruppe.

C 95,3 — H 4,7 — M. G. 428. $C_{84}H_{20}$ 1) Dinaphtylendiphenylenäthen. Sm. 180-190° (A. 335, 136 C. 1904 [2] 1134).

С 88,3 — H 11,7 — M. G. 462. C84H54 1) Kohlenwasserstoff (aus Guttapercha) (C. 1903 [1] 83).

- 34 II -

C 73,1 — H 3,9 — O 22,9 — M. G. 558. C84H22O8

 $\mathbf{C}_{84}\mathbf{H}_{50}\mathbf{O}_{2}$

1) Tetrabenzoat d. 1, 2, 3, 4-Tetraoxybenzol (B. 37, 120 C. 1904 [1] 586). C 90,9 — H 6,0 — N 3,1 — M. G. 449.

CaHanN 1) Anilinderivat d. 9,10-Dibenzylidenanthracen. Sm. 233 (M. 25, 801 C. 1904 [2] 1137). C 90,3 - H 6,2 - O 3,5 - M. G. 452.

C₈₄H₂₈O 1) Aethyläther d. 10-Oxy-9,9,10-Triphenyl-9,10-Dihydroanthracen.

Sm. 250° (C. r. 139, 11 C. 1904 [2] 530).
2) Dimethyläther d. 1,4-Di[α-Oxydiphenylmethyl]benzol. Sm. 181 bis 182,5° (B. 37, 1468 C. 1904 [1] 1342).
C 86,1 — H 7,2 — O 6,7 — M. G. 474. C84H80O2 $C_{84}H_{34}O_{2}$

1) γθ-Diketo-αείκ-Tetraphenyldekan. Sm. 171-172° (A. 330, 234 C. 1904 [1] 945).

 Di[4-Dimethylamidophenyl]-4-[4-Methylphonyl]amido-1-Naphtylmethan. Sm. 193-194° (C. 1903 [1] 88; B. 37, 190; C. 1904 [2] 115).
 Verbindung (aus Dibenzylidenaceton). Sm. 158° u. Zers. (Soc. 85, 1180 C. 1904 [2] 1216). $C_{84}H_{85}N_{3}$

 2) Verbindung (aus α-Oxybenzylidencampher). Sm. 221° (Soc. 83, 102 O. 1903 [1] 234, 459).
 C 54,4 — H 5,1 — O 40,5 — M. G. 750. C84 H88 O4 C₈₄H₈₈O₁₉

1) Cocaflavin + 4H₂O. Sm. 163-164° (J. pr. [2] 66, 413 C. 1903 [1] 528). C 76,4 - H 8,6 - O 15,0 - M. G. 534. $C_{84}H_{46}O_5$ 1) Verbindung (aus d. d-Santonigesäureäthylester) (G. 25 [2] 292). —

*II, 977.

2) αβ-Dibenzoat-γ-Palmitat d. αβγ-Trioxypropan. Sm. 69° (B. 36, 4343 C. 1904 [1] 434).
C 80,9 — H 9,5 — O 9,5 — M. G. 504.

1) Benzoat d. Cholestonol. Sm. 173° (B. 36, 3755 C. 1903 [2] 1417). $C_{34}H_{46}O_{6}$ $C_{84}H_{48}O_8$

2) Verbindung (aus Asclepias syriaca L.). Sm. 165° (J. pr. [2] 68, 413 O 1904 [1] 105).

3) Verbindung (aus Asclepias syriaca L.). Sm. 180—182° (J. pr. [2] 68, 401 C. 1904 [1] 105). C 67,8 — H 8,3 — O 23,9 — M. G. 602.

 $C_{94}H_{50}O_{9}$ 1) Diäthylester d. Photosantoninsäure. Sm. 132° (G. 33 [2] 68 C. 1903 [2] 1182). C 75,3 —

 $\mathbf{C_{84}H_{54}O_{5}}$ - H 10,0 - O 14,7 - M. G. 542. 1) Acetat d. Cardol. Fl. (C. 1896 [1] 112). - *III, 462.

C 79.7 — H 10.9 — O 9.4 — M. G. 512. $C_{q,l}H_{g,g}O_{g}$ 1) Verbindung (aus Asclepias syriaca L.). Sm. 79-83° (J. pr. [2] 68, 458 C. 1904 [1] 191).
*1) Ericolin (C. 1903 [2] 729).
1) Herniarin. Sm. 228—231° (C. 1904 [1] 1215).
2) Dipalmitat d. αβ-Dioxyäthan. Sm. 72°; Sd. 241° (B. 36, 4340). C34H56O21 C₃₄H₅₉O₁₉ C,4H,66O, C. 1904 [1] 433). - 34 III *-*C 76,5 — H 2,6 — O 12,0 — N 8,9 — M. G. 533.

1) 4-Phenylamidoindanthren (B. 36, 3438 C. 1903 [2] 1280). $C_{84}H_{19}O_4N_8$ C34H20O4N4 3) 1,5-Di[2-Oxy-1-Naphtylazo]-9,10-Anthrachinon (B. 37, 4187 C. 1904) [2] 1742). 4) 1,5-Di[4-Oxy-l-Naphtylazo]-9,10-Anthrachinon (B. 37, 4187 C. 1904 [2] 1742). $C_{75,7} - H_{4,6} - O_{11,9} - N_{7,8} - M_{6,539}$ CadHasOdNa 1) Di[Diphenylamid] d. Benzoximidomalonsäure. Sm. 175" (C. 1904) $C_{80.0} - H_{5.1} - O_{9.4} - N_{5.5} - M_{6.510}$ C34H26O3N9 1) s-Di[4-Methylphenyl|rhodamin (D. R. P. 47451). -- *III, 577. CatHacOIN 5) 4,4'-Dimethyläther d. 4,4'-Di[4-Oxyphenyl]-3,3'-Dioxy-2,2'-Bi- 4,4-Dimensylatiner d. 4,4-Di[4-Oxyphenyi]-3,3-Dioxy-2,2-Bi-naphtyl (C. r. 138, 1619 C. 1904 [2] 338).
 C 73,9 — H 5,1 — O 5,8 — N 15,2 — M. (†. 552.
 Verbindung (aus 3-Keto-4-Benzoyl-5-Methyl-2-Phenyl-2,3-Dihydropyrazol). Sm. oberh. 300° (B. 36, 529 C. 1903 [1] 642).
 2-Nitrophenylimid d. s-Tetraäthylrhodamin. Sm. 194° (D. R. P. C34H28O2N8 $C_{34}H_{84}O_4N_4$ 88 675). — *III, *576*. 6) 3 - Nitrophenylimid d. s - Tetraäthylrhodamin. Sm. 145° (D.R.P. 88675). - *III, 576. 7) 4 - Nitrophenylimid d. s - Tetraäthylrhodamin. Sm. 200° (D.R.P. 88675). — *III, 576. $C_{s_4}H_{s_4}N_sCl$ *1) Chlorid d. α -Oxy- $\alpha\alpha$ -Di[4-Dimethylamidophenyl]- α -[4-p-Methylphenylamido-1-Naphtyl] methan (Victoriablau 4R) (B. 37, 1913 C. 1904 21 116). C₈₄H₃₅O₂N₃ $C_{78,9} - H_{6,8} - O_{6,2} - N_{8,1} - M_{6,6}$. 517. 1) Phenylimid d. s - Tetraäthylrhodamin. Sm. 220-222° (D.R.P. 80153, 81958). — *III, 576. C 83,6 — H 7,4 — O 3,3 — N 5,7 — M. G. 488. C84H35ON2 9,9-Di[4-Diäthylamidophenyl]-10-Keto-9,10-Dihydroanthracen. Sm. 218° (C. r. 136, 537 C. 1903 [1] 837).
 Cusparein. Sm. 54° (C. 1903 [2] 1011). C34H36O2N5 Cusparein. Sm. 54° (U. 1903 [2] 1011).
 Dimethyläther d. βη-Di [Phenylhydrazon]-δε-Di[4-Oxyphenyl]-oktan. Sm. 180° (A. 330, 237 C. 1904 [1] 945).
 C 72,I — H 6,7 — O 11,3 — N 9,9 — M. G. 566.
 Mesoporphyrin. Sm. noch nicht bei 310°. Zn. Cu, 2 HCl (II. 37, 54 C. 1903 [1] 44; B. 35, 4342 C. 1903 [1] 294).
 C 68,2 — H 6,3 — O 16,1 — N 9,4 — M. G. 598.
 Hämatoporphyrin. 2 HCl (H. 37, 59 C. 1903 [1] 45). $C_{34}H_{38}O_{2}N_{4}$ C34H38O4N4 C34H38O8N4 $C_{34}H_{39}O_7P$ Phosphit d. αβη-Trioxypropan-αη-Di[2-Methylphenyläther].
 118—119° (Soc. 83, 1139 C. 1903 [2] 1059). Sm. 2) Phosphit d. $\alpha\beta\gamma$ -Trioxypropan- $\alpha\gamma$ -Di[4-Methylphenyläther]. 81—82° (Soc. 83, 1140 C. 1903 [2] 1059).
2) Sulfid d. a-Merkaptodi[3-Methylamido-4-Methylphenyl]methan? $\mathbf{C}_{34}\mathbf{H}_{42}\mathbf{N}_{4}\mathbf{S}$ Sm. 214-215° (C. 1903 [1] 400).

- 34 IV -

C₃₄H₂₈O₁₂N₆S₄ 1) Disazoverbindung (aus 4,4'-Diamido-3,3'-Dimethylbiphenyl-6,6'-Disulfonsäure u. 1-Amidonaphtalin-4-Sulfonsäure). Ba₂ (J. pr. [2] 66, 568 C. 1903 [1] 519).

- 1) 1, 5-Di[2-Oxy-1-Naphtylazo]-9, 10-Anthrachinon-1³, 1³, 5³, 5³-Tetrasulfonsäure (B. 87, 4187 C. 1904 [2] 1742).
 2) Dehydrohämatin (H. 40, 413 C. 1904 [1] 679).
 3) Dehydrochloridhämin. HCl, HBr (H. 40, 410 C. 1904 [1] 679). $C_{34}H_{30}O_{16}N_4S_4$
- $\mathbf{C}_{34}\mathbf{H}_{32}\mathbf{O}_{4}\mathbf{N}_{4}\mathbf{Fe}$
- $C_{34}H_{34}O_5N_4Fe$
- 1) Hämatin (H. 40, 415 C. 1904 [1] 679). 1) Verbindung (aus 4-Amido-1,3-Dimethylbenzol). Sm. 98° (C. r. 139, 411 C. 1904 [2] 764). $C_{34}H_{47}O_{2}N_{4}P$

— 34 V -

*1) Hämin (H. 40, 393 C. 1904 [1] 678; H. 41, 543 C. 1904 [2] 452; H. 42, 65 C. 1904 [2] 598). $C_{84}H_{88}O_4N_4ClFe$

 $C_{34}H_{33}O_4N_4Br$ Fe 1) Bromwasserstoffhämin (H. 40, 399 C. 1904 [1] 679).

C₃₅-Gruppe.

 $C_{35}H_{68}$ C 86,1 — H 13,9 — M. G. 488. 1) Kohlenwasserstoff (aus Petroleum) C. 1904 [1] 409).

- 35 II ·

C₈₅H₂₈O₁₁ C₃₅H₃₈O₁₂

 $\mathbf{C}_{85}^{\circ}\mathbf{H}_{46}^{\circ}\mathbf{O}_{10}$

 $C_{35}H_{46}O_{11}$

 $C_{85}H_{50}O_{2}$

3) Dibenzoat d. Barbaloin (C. 1903 [1] 235). — *III, 453. *1) Filixsäure (oder $C_{35}H_{40}O_{12}$) (Ar. 242, 496 C. 1904 [2] 1418). C 67,1 — H 7,4 — 0 25,5 — M. G. 626. 1) α -Ardisiol. Sm. 107° (C. 1903 [1] 837). 2) β -Ardisiol. Sm. 183° (C. 1903 [1] 837). C 65,4 — H 7,2 — 0 27,4 — M. G. 642. 1) Oxyardisiol. Sm. 191° (C. 1903 [1] 837). C 83,6 — H 10,0 — 0 6,4 — M. G. 502. 1) Benzoat d. Verbindung $C_{28}H_{46}O$. Sm. 195—196° (J. pr. [2] 68, 457 C. 1904 [1] 191) C. 1904 [1] 191).

 $C_{85}H_{52}O_{2}$ 3) Benzoat d. Anthesterin (oder $C_{88}H_{54}O_{2}$). Sm. 284—286° (Bl. [3] 27, 1231 C. 1903 [1] 237).

4) Verbindung (aus Asclepias syriaca L.). Sm. 95° (J. pr. [2] 68, 412 C. 1904 [1] 105).

2) l-Dimenthylester d. $\beta\zeta$ -Diketo- δ -Phenylheptan- $\gamma\varepsilon$ -Dicarbonsäure. C₈₅H₅₂O₆

Sm. 203—206° (Soc. 85, 55 C. 1904 [1] 360, 788). 2) α -Masticoresen. Sm. 74—75° (Ar. 242, 110 C. 1904 [1] 1010). 2) $\alpha\beta$ -Dipalmitat d. $\alpha\beta\gamma$ -Trioxypropan. Sm. 67° (C. 1903 [1] 133). 3) $\alpha\gamma$ -Dipalmitat d. $\alpha\beta\gamma$ -Trioxypropan. Sm. 69° (C. 1903 [1] 133). C35H56O4 C₈₅H₆₈O₅

35 III

*1) Imabenzil. Sm. 195° (B. 35, 4138 C. 1903 [1] 295). $\mathbf{C}_{85}\mathbf{H}_{28}\mathbf{O}_{8}\mathbf{N}_{2}$

2) $\beta\beta$ -Di[P-(2-Oxy-1-Naphtyl)azo-4-Oxyphenyl]propan (C. 1904 [2] 1737). CasHasO4N4

2) $\alpha \gamma \varepsilon$ -Tri[2-Pyridoyl]- $\beta \delta$ -[Diphenyl]pentan. Sm. 215° (B. 35, 4062) $C_{35}H_{29}O_3N_3$ C. 1903 [1] 91).

C 65,8 — H 4,7 — O 25,1 — N 4,4 — M. G. 638.

1) Tetrabenzoat d. Glykoseureïd. Sm. 117° (R. 22, 62 C. 1903 [1] 1080). C 65,5 — H 4,8 — O 27,5 — N 2,2 — M. G. 641. $C_{35}H_{30}O_{10}N_2$

 $C_{35}H_{31}O_{11}N$ 1) Tetrabenzoylderivat d. Amidoglykoheptonsäure. Sm. 1010 (B. 35,

4020 C. 1903 [1] 391). 1) 4,4'-Di[α -Methyl- β -Phenylthioureïdo]triphenylmethan. Sm. 124° $C_{85}H_{32}N_4S_2$

(B. 37, 641 C. 1904 [1] 951). C 72,8 — H 8,8 — O 11,1 — N 7,3 — M. G. 577. $C_{35}H_{51}O_4N_3$ 1) 4-Nitrophenylhydrazon d. Cholestanonolacetat. Sm. 1440 (M. 24. 654 C. 1903 [2] 1235).

- 35 IV

1) α -Oxy-4,4'-Di[α -Methyl- β -Phenylthioureïdo]triphenylmethan. $C_{85}H_{32}ON_4S_2$ Sm. 136° (B. 37, 644 C. 1904 [1] 951).

1) Di[2-Naphtalinsulfotyrosyl-dl-Leucin. Sm. 100-105° (B. 36, C₈₅H₈₄O₈N₂S₂

2606 C. 1903 [2] 619). 1) Heminukleïnsäure + 3H₂O (C. 1904 [2] 133). $C_{85}H_{51}O_{25}N_{9}P_{4}$

1) Uroferrinsäure. Ba, Zn (H. 37, 282 C. 1903 [1] 727). $C_{35}H_{56}O_{19}N_8S$

- 35 V

 $C_{85}H_{24}O_7N_5Cl_5P_2$ 1) Verbindung (aus Anthranilsäure u. Phosphorpentachlorid). Sm. 148—153° (B. 36, 1827 C. 1903 [2] 201).

C₃₆-Gruppe.

C,8H,8 C 96,0 - H 4,0 - M. G. 450.1) Trinaphtylenbenzol (Dekakylen). Sm. 387°. Pikrat (B. 36, 968 C. 1903 [1] 1088; B. 36, 1586 C. 1903 [2] 46).

- 36 II -

C₈₆H₉Cl₉ 1) Nonochlordekacyklen. Sm. 215-218° u. Zers. (B. 36, 3773 C. 1903 [2] 1446).

 $C_{86}H_{16}Br_8$ Tribromdekacyklen. Sm. 397-400° (B. 36, 3773 C. 1903 [2] 1446). C₈₆H₂₂O₈

Tribenzoat d. 5, 6-Dioxy-2-Keto-1-[3-Oxybenzyliden]-1, 2-Dihydrobenzfuran. Sm. 173° (B. 29, 2434). — *III, 533. 3) Stictaurin (C. 1903 [2] 121). $C_{86}H_{22}O_9$

C 74,0 — H 4,1 — O 21,9 — M. G. 584. $C_{86}H_{24}O_{8}$

1) Tribenzoat d. Butin. Sm. 155—157° (C. 1903 [1] 1415; 1904 [2] 451). C 87,4 — H 6,1 — O 6,5 — M. G. 494. C₈₆H₈₀O₂

1) Verbindung (aus Benzylidenacetophenon). Sm. 180° (Am. 29, 360 C. 1903 [1] 1180). C 82,8 — H 6,5 — N 10,7 — M. G. 522. $\mathbf{C_{36}H_{34}N_{4}}$

1) Phenylhydrazinderivat d. Base $C_{80}H_{80}O_2N_2$. Sm. 200° (C. r. 137, 608 C. 1903 [2] 1180). C 77,2 — H 7,8 — N 15,0 — M. G. 560.

 $C_{36}H_{44}N_6$

1) 2,3,5,6-Tetra[4-Dimethylamidophenyl]-2,3,5,6-Tetrahydro-1,4-Diazin. Sm. 95° (B. 37, 1738 C. 1904 [1] 1599). C 78,2 — H 10,1 — O 11,6 — M. G. 276.

C36H56O4 1) Resen (aus Gräberharz). Sm. 74,5—76° (Ar. 242, 114 C. 1904 [1] 1010). 2) isom. Resen (aus Gräberharz). Sm. 130—131° (Ar. 242, 114 C. 1904

3) Verbindung (aus Guttapercha) oder C₃₄H₅₆O₈. Sm. 145° (C. 1903 [1] 83). *1) Dilichesterinsäure + 3H₂O (J. pr. [2] 68, 34 C. 1903 [2] 512). C 81,8 - H 12,1 - O 6,1 - M. G. 528. C₈₆H₆₀O₈ C38 H60 O10 C₃₆H₆₄O₂

Chaulmoogrylester d. Chaulmoograsäure. Sm. 42° (Soc. 85, 857 C. 1904 [2] 348, 604).
 C 76,6 — H 12,1 — O 11,3 — M. G. 564.

CasHesO4 Laktid d. α-Oxyheptadekan-α-Carbonsäure. Sm. 88,5—90,5° (Soc. 85, 835 C. 1904 [2] 510).

- 36 III -

C36H15O6N8

C 73,8 — H 2,6 — O 16,4 — N 7,2 — M. G. 585.

1) Trinitrodekacyklen (B. 36, 3772 C. 1903 [2] 1446).

1) Anhydro-3,5-Dimerkapto-4-Thiocarbonyl-1-Keto-2,6-Diphenyl-1,4-Dihydrobenzol. Sm. 278° (B. 37, 1608 C. 1904 [1] 1444).

C 71,7 — H 4,3 — O 5,3 — N 18,6 — M. G. 602.

1) Azoderivat d. 3,6-Di[4-Amidobenzyl]-1,2,4,5-Tetrazin. Zers. bei 200° (B. 35, 3939 C. 1903 [1] 39).

C 70,8 — H 4,3 — O 15,7 — N 9,2 — M. G. 610.

1) Tetrabenzovlderivat d. 3.6-Dimethyl-1.2-Dihydro-1.3-Diazin-4.5- $C_{86}H_{22}O_6S$ $C_{88}H_{28}O_{2}N_{8}$

 $C_{86}H_{26}O_6N_4$ 1) Tetrabenzoylderivat d. 3,6-Dimethyl-1,2-Dihydro-1,3-Diazin-4,5-Dicarbonsäurecyklohydrazid. Sm. 189—191° (B. 37, 95 C. 1904 [1] 589).

C₈₆H₃₀O₃N₂ C'80,3´— H 5,6 — O 8,9 — N 5,2 — M. G. 538. 1) s-Diáthyldiphenylrhodamin (D. R.P. 46354). — *III, 577.

C 66,9 — H 4,6 — O 19,8 — N 8,7 — M. G. 646. $C_{36}H_{30}O_8N_4$ (B. 37, 2209 C. 1904 [2] 324). C 69,7 — H 5,8 — O 15,5 — N 9,0 — M. G. 620.

 $C_{36}H_{36}O_6N_4$ 1) Di[Phenylhydrazon] d. Isobiliansäure. Sm. 2020 (M. 24, 55 C. 1903 [1] 765). C 72,7 — H 7,1 — O 10,8 — N 9,4 — M. G. 594.

 $C_{86}H_{42}O_4N_4$ 1) Dimethylester d. Mesoporphyrin. Sm. 213-214° (H. 37, 63 C. 1903 [1] 45).

 $C^24.8 - H 2.5 - O 58.9 - N 13.7 - M. G. 1737.$ $\mathbf{C_{86}H_{48}O_{64}N_{17}}$

1) Nitrostärke (C. 1903 [1] 1122). $C_{86}H_{44}N_6Br_2$ 1) 1,4 - Dibrom - 2,3,5,6-Tetra [4 - Dimethylamidophenyl]hexahydro-1,4-Diazin. Sm. 95° (B. 37, 1739 C. 1904 [1] 1599).

- 36 IV

1) polym. 4-Phenylazodiphenyljodoniumsulfid (B. 37, 1315 C. 1904 $C_{96}H_{28}N_4J_2S$ [1] 1341).

1) Methylhydroxyd d. Pseudomorphinjodmethylat (B. 13, 93). - $C_{86}H_{48}O_7N_2J$

III, 911. 1) Verbindung (aus 4-Amido-1, 3-Dimethylbenzol). Sm. 107° (C. r. 139, 411 C. 1904 [2] 764). $C_{36}H_{51}O_{2}N_{4}P$

C₃₇-Gruppe.

2) 4-Phenylimido-I-Di[4-Phenylamidophenyl]methylen-I, 4-Dihydro-C87 H29 N3 benzol (4,4'-Diphenylamidofuchsonphenylimin). Sm. 237—238°. HCl, Pikrat (B. 37, 2870 C. 1904 [2] 777). C 85,9 — H 6,0 — N 8,1 — M. G. 517.

 $C_{97}H_{91}N_{3}$

1) 4,4',4"-Tri[Phenylamidophenyl]methan. Sm. 182-184° (B. 37, 2873 C. 1904 [2] 777). C 82,9 — H 6,7 — N 10,4 — M. G. 536.

C₃₇H₃₆N₄

1) Phenylhydrazonderivat d. Base $C_{31}H_{62}O_2N_2$. Sm. 220° (C. r. 137, 608 C. 1903 [2] 1180). C 84,9 — H 7,1 — N 8,0 — M. G. 523.

 $\mathbf{C_{87}H_{87}N_3}$

1) Tri[4-Aethylamido-1-Naphtyl]methan. Sm. oberh. 300° (C. 1903 [1] 88; B. 37, 1912 C. 1904 [2] 115).

*1) Benzoat d. α -Amyrin. Sm. 191—192° (Ar. 241, 154 C. 1903 [1] 1029). *2) Benzoat d. β -Amyrin. Sm. 229° (Ar. 241, 155 C. 1903 [1] 1029; C₉₇H₅₄O₂ J. pr. [2] 68, 452 C. 1904 [1] 191). 2) Carelemisäure. Sm. 120° (Ar. 241, 152 C. 1903 [1] 1029; Ar. 242,

C₈₇H₅₆O₄ 119 C. 1904 [1] 1011).

3) α-Isocolelemisaure. Sm. 120—122° (Ar. 242, 349 C. 1904 [2] 526).

 $\mathbf{C}_{37}\mathbf{H}_{60}\mathbf{O}_{10}$ 1) Gratioligenin. Sm. 285° (Ar. 240, 564 C. 1903 [1] 42).

- 37 III

C 83,3 - H 5,8 - O 3,0 - N 7,9 - M. G. 533. $C_{87}H_{31}ON_3$ 1) α-Oxy-4,4',4''-Tri[Phenylamido]triphenylmethan. Sm. 85° (B. 37, 2873 C. 1904 [2] 777).

1) Chlorid d. α-Oxy-ααα-Tri[4-Aethylamido-l-Naphtyl]methan (B. 37, 1914 C. 1904 [2] 116). $C_{87}H_{82}N_8Cl$

C 77.9 - H 6.0 - O 11.2 - N 4.9 - M. G. 570. $C_{87}H_{84}O_4N_2$ 1) Dibenzoat d. 4',4"-Di[Dimethylamido]-3,4-Dioxytriphenylmethan.

Sm. 154° (B. 36, 2918 C. 1903 [2] 1065). C 68,8 — H 5,4 — O 14,9 — N 10,8 — M. G. 645. Di[Phenylhydrazon] d. 3-Nitrobenzylidendivanillindimethyläther. Sm. 203,5—204,5° (B. 36, 3978 C. 1904 [1] 373). $C_{87}H_{85}O_6N_5$

C38H28O8

C38 H39 N5

C 80,5 - H 6,5 - O 2,9 - N 10,1 - M. G. 552.C₈₇H₈₆ON₄ 1) Verbindung (aus d. Verb. C₈₁H₃₂O₉N₂). Sm. 203° (C. r. 138, 212

C. 1904 [1] 663). C 71,4 - H 6,7 - O 12,9 - N 9,0 - M. G. 622.

C₈₇H₄₂O₅N₄ 1) Verbindung (aus Aspidin u. Phenylhydrazin). Sm. 208—209° (A. 329, 331 C. 1904 [1] 800).

2) Verbindung (aus Pseudoaspidin). Sm. 201-2020 (A. 329, 335 C. 1904 [1] 800).

C76.0 - H11.0 - O8.2 - N4.8 - M.G. 584. $C_{37}H_{64}O_3N_2$

1) Spilanthol (Ar. 241, 280 C. 1903 [2] 451). C 79,7 — H 12,0 — O 5,7 — N 2,5 — M. G. 557. C₈₇H₆₇O₂N

1) Phenylamidoformiat d. α-Oxytriakontan. Sm. 91,5 (Bl. [3] 31, 53 C. 1904 [1] 507).

C_{38} -Gruppe.

*1) Hexaphenyläthan. Sm. 226-227° (B. 35, 3918 C. 1903 [1] 84; B. 36, $C_{38}H_{30}$ 379 C. 1903 [1] 716; C. r. 137, 59 C. 1903 [2] 574; B. 37, 2397 C. 1904 [2] 443).

2) bim Triphenylmethyl. Sm. 145—147°. + C₆H₆, + 2 Molec. Aether, + Essigsāureāthylester (B. 33, 3150; 34, 2726; B. 34, 3815 C. 1902 [1] 44; B. 35, 1822 C. 1902 [2] 210; B. 36, 320 C. 1903 [1] 638; B. 36, 579 C. 1903 [1] 638; B. 36, 376 C. 1903 [1] 715; B. 37, 2033 C. 1904 [2] 225; B. 37, 2397 C. 1904 [2] 443). — *II, 128.

— 38 II —

1) Dibenzyldinaphtylenthiophen. Sm. 207—210° (Bl. [3] 31, 928 C. 1904 C38H24S [2] 779). C 83,5 — H 4,8 — O 11,7 — M. G. 546. 1) Verbindung (aus Resorcin u. Benzil). Sm. 229° (B. 36, 3051 C. 1903

C38H28O4

2) Verbindung (aus d. Verb. $C_{40}H_{28}O_{5}$) (B. 36, 3053 C. 1903 [2] 1009). C 85.7 — H 5.2 — O 9.0 — M G 532.

1) Verbindung (aus d. Verb. $C_{40}H_{28}O_5$). Sm. 278° (B. 36, 3053 C. 1903 [2] 1009). C 83,2 — H 5,1 — O 11,7 — M. G. 548.

C38H28O4 1) Verbindung (aus d. Verb. $C_{4_0}H_{90}O_{9}$) (B. 36, 3052 C. 1903 [2] 1009). *1) Triphenylmethylperoxyd (B. 37, 3538 C. 1904 [2] 1737). C 74,3 — H 4,9 — O 20,8 — M. G. 614.

 $C_{98}H_{80}O_{2}$ C38H30O8

C 74,5 — H 4,9 — O 20,8 — M. G. 514.

1) Tetrabenzoat d. 2,3,5,6-Tetraoxy-1,4-Diäthylbenzol. Sm. 275° (B. 37, 2387 C. 1904 [2] 308).
C 88,7 — H 5,8 — N 5,4 — M. G. 514.

 $\mathbf{C}_{88}\mathbf{H}_{80}\mathbf{N}_{2}$ 1) Anhydro-α-Oxy-2-Amidotriphenylmethan. Sm. 250° u. Zers. (B. 37, 3196 C. **1904** [2] 1472).

2) Anhydro-α-Oxy-4-Amidotriphenylmethan. Sm. 300° u. Zers. Pikrat

(B. 37, 603 C. 1904 [1] 886).

*1) αγε-Tribenzoyl-βδ-Diphenylpentan. β-Modif. Sm. 255—256°. + C₆H₆, + C₇H₈ (Soc. 83, 366 C. 1903 [1] 578, 1129).
C 82,6 — H 5,8 — O 11,6 — M. G. 552. $C_{38}H_{32}O_3$ C38H32O4

 Verbindung (aus d. Verb. C₈₈H₂₈O₄) (B. 36, 3052 C. 1903 [2] 1009).
 C 87,4 — H 6,5 — O 6,1 — M. G. 522. C38H34O2

1) $\alpha \varepsilon$ -Diketo- $\alpha \beta \delta \varepsilon$ -Tetraphenyl- γ -[4-Isopropylphenyl]pentan. Sm. 225°

 αε-Diketo-αροε-τειταρμεσμη-η-[±-150ριοργιρπεσμη] βοιλεία. Μ. 26.
 (B. 35, 3969 C. 1903 [1] 31).
 C 80,7 — H 6,9 — N 12,4 — M. G. 565.
 Phenylhydrazinderivat d. Phtalgrün. Sm. 288° (C. 1903 [1] 86; C. r. 137, 609 C. 1903 [2] 1181).
 Heptaacetat d. Onospin. Sm. 76—80° (M. 24, 144 C. 1903 [1] 1033). C₉₈H₄₀O₁₇ C 79,1 — H 9,7 — O 11,1 — M. G. 576.

1) Carieleminsäure. Sm. 215° (Ar. 242, 118 C. 1904 [1] 1011). C38H56O4

2) Isocarieleminsäure. Sm. 75—76° (Ar. 242, 118 C. 1904 [1] 1011). *3) Distearat d. $\alpha\beta$ -Dioxyäthan. Sm. 79°; Sd. 241° (B. 36, 4340 C. 1904 C38H74O4 11 433).

- 38 III -

C 87,0 — H 4,6 — O 3,1 — N 5,3 — M. G. 524. 1) Aether d. 5-[3-Oxyphenyl]akridin. Sm. $366-367^{\circ}$ u. Zers. (2 HCl, $C_{38}H_{24}ON_{2}$ $PtCl_4$), (2 HCl, 2 AuCl₃), 2(H₂Cr₂O₇), Pikrat (Bl. [3] 31, 1086 C. 1904 [2] 1509). $C_{38}H_{24}O_2Cl_6$ 1) Peroxyd d. α-Oxy-4, 4', 4"-Trichlortriphenylmethan. Sm. 140-142° (B. **37**, 1636 C. **1904** [1] 1649). $C_{88}H_{24}O_{14}N_{6}$ *1) Peroxyd d. α -Oxytri[4-Nitrophenyl]methan. Sm. 218° (B. 37, 1640 C. 1904 [1] 1649). $\mathbf{C}_{88}\mathbf{H}_{28}\mathbf{O}_{2}\mathbf{Cl}_{2}$ 1) Peroxyd d. α-Oxy-4-Chlortriphenylmethan. Sm. 165° (B. 37, 1634) C. 1904 [1] 1649). 1) Peroxyd d. α-Oxy-4-Bromtriphenylmethan. Sm. 167° (B. 37, 1634) $\mathbf{C}_{38}\mathbf{H}_{28}\mathbf{O}_{2}\mathbf{Br}_{2}$ C. 1904 [1] 1649).
 Peroxyd d. α-Oxy-4-Jodtriphenylmethan. Sm. 169° (B. 37, 1634) C₈₈H₂₈O₂J₂ C. 1904 [1] 1649). C 78,7 — H 5,0 — O 13,8 — N 2,4 — M. G. 579.
1) Dibenzoat d. Benzoylapomorphin. Sm. 217—218° (B. 35, 4385) $\mathbf{C}_{38}\mathbf{H}_{29}\mathbf{O}_5\mathbf{N}$ C. 1903 [1] 338). C 79,4 — H 5,2 — O 5,6 — N 9,8 — M. G. 574. $C_{38}H_{30}O_2N_4$ 1) Dibenzyläther d. 4,4'-Di[4-Oxyphenylazo]biphenyl (B. 36, 2975 C. 1903 [2] 1031).
C 88,2 — H 6,0 — O 3,1 — N 2,7 — M. G. 517.
Di[Triphenylmethyl]hydroxylamin. Sm. 184° (B. 37, 3151 C. 1904) C₈₈H₈₁ON [2] 1047). C 74,5 — H 5,3 — O 15,7 — N 4,5 — M. G. 612. 1) Tetrabenzoat d. Skatosin. Sm. 169° (C. 1903 [1] 411). $C_{38}H_{32}O_6N_2$ C 80,6 — H 6,7 — O 2,8 — N 9,9 — M. G. 566.

1) Verbindung (aus d. Verb. $C_{82}H_{34}O_3N_2$). Sm. 186° (C. r. 138, 213 C. 1904 [1] 663). $C_{88}H_{88}ON_4$ $C_{38}H_{42}N_{2}Br_{2}$ 1) 10,10'-Bi[5-Brom-1,3,4,6,7,9-Hexamethyl-5,10-Dihydroakridin] C₃₈H₄₂N₂Br₂ 1) 10, 10 - B1[0 - B10m - 1, 3, 4, 6, 7, 8 - Hexamethyl- 3, 10 - D1ny at (Soc. 85, 1203 C. 1904 [2] 1060).

C₃₈H₄₂N₂Br₅ 1) 10,10'-Bi[1, 3, 4, 6, 7, 9 - Hexamethylakridin]hexabromid. (Soc. 81, 285; Soc. 85, 1202 C. 1904 [2] 1060).

C₃₈H₄₂N₂J₅ 1) 10,10'-Bi[1, 3, 4, 6, 7, 9 - Hexamethylakridin]hexajodid. (Soc. 85, 1203 C. 1904 [2] 1060).

C₃₈H₄₆O₄N₄ C 7₃3 - H 7,4 - O 10,3 - N 9,0 - M. G. 622.

1) Diāthylester d. Mesoporphyrin. Sm. 202-203°. Cu (C. 1902 [1] 45) Sm. 287° Sm. 275° Cu (H. 37, 63 C. 1903 [1] 45). C₃₈H₇₄N₂Br₂ 1) Di[Bromisoamylat] 1, 3-Di [Diisoamylamidomethyl] benzol. đ. 1) Di[Bromisoamylati] d. 1,3-Di[Diisoamylamidomethyl] benzol. + Br₄ (B. 36, 1678 C. 1903 [2] 29). C 77,0 - H 12,8 - O 5,4 - N 4,7 - M. G. 592.

1) Di[Isoamyloxydhydrat] d. 1,3-Di[Diisoamylamidomethyl] benzol. Bromid + Br₄, 2 Pikrat (B. 36, 1678 C. 1903 [2] 29). C 59,5 - H 10,2 - O 23,0 - N 7,3 - M. G. 766. $\mathbf{C}_{38}\mathbf{H}_{76}\mathbf{O}_{2}\mathbf{N}_{2}$ C₈₈H₇₈O₁₁N₄ Verbindung (aus Ketipinsäurediäthylester u. Benzyliden-β-Naphtylamin).
 Sm. 80° (Bl. [3] 23, 437). — *III, 23.

- 38 IV -

 $\mathbf{C}_{38}\mathbf{H}_{84}\mathbf{N}_{6}\mathbf{S}_{2}\mathbf{Si}$ 1) Verbindung (aus Phenylsenföl u. Silicotetraphenylamid) (Soc. 83, 255 C. 1903 [1] 875).

C₃₉-Gruppe.

C₃₉H₂₈O C 91,4 - H 5,4 - O 3,1 - M. G. 512. 1) Tetraphenyldiphenylenpropylenoxyd. Sm. 202-203° (B. 29, 736). - *II, 994. C 86,0 - H 5,1 - O 8,8 - M. G. 544. 1) Tetraphenyldiphenylentrioxymethylen. Sm. 205-206° (B. 29, 736). - *II, 993.

 $C_{39}H_{30}O$ C 91.0 - H 5.8 - O 3.1 - M. G. 514.1) Verbindung (aus Tetraphenyldiphenylenpropylenoxyd). Sm. 186° (B. 29, 737). - *II, 994. 2) Verbindung (aus Tetraphenyldiphenylenpropylenoxyd). Sm. 223 ° (B. 29, 737). — *II, 994. C 88,3 — H 5,7 — 6,0 — M. G. 530. $C_{99}H_{80}O_{2}$ Verbindung (aus d. Säure C₄₀H₃₀O₄). Sm. 220° (B. 29, 737). — *II, 994. C 85,1 — H 6,2 — O 8,7 — M. G. 550. $C_{89}H_{34}O_{3}$ αγε-Tribenzoyl-βδ-Diphenylhexan. Sm. 241—242° (Soc. 83, 362 C. 1903 [1] 577, 1129).
 C 79,6 — H 9,5 — O 10,9 — M. G. 588. $C_{89}H_{56}O_4$ 1) Coleleminsäure. Sm. 215° (Ar. 242, 349 C. 1904 [2] 526). 2) $\alpha\beta$ -Dioleat d. $\alpha\beta\gamma$ -Trioxypropan (C. 1903 [1] 133). C₈₉H₇₂O₅ 3) $\alpha \gamma$ -Dioleat d. $\alpha \beta \gamma$ -Trioxypropan (C. 1903 [1] 133). *1) Glycerintrilaurin. Sm. 45° (B. 36, 4344 C. 1904 [1] 434). *1) Glycerindistearin. Sm. $74,2^{\circ}$ (B. 36, 1124 C. 1903 [1] 1312). 2) $\alpha\beta$ - Distearat d. $\alpha\beta\gamma$ - Trioxypropan. Sm. $74,5^{\circ}$ (C. 1903 [1] 133; $C_{89}H_{74}O_{6}$ C₈₉H₇₆O₅ 1904 [2] 414). 3) $\alpha\gamma$ -Distearat d. $\alpha\beta\gamma$ -Trioxypropan (α -Distearin). Sm. 72,5 ° (C. 1903 [1] 133; 1904 [2] 414). — 39 III — C 65,6 — H 5,4 — O 26,9 — N 2,0 — M. G. 713.

1) Adlumin (oder C₃₀H₄₁O₁₂N). Sm. 188° (*C.* 1903 [1] 1142). C 76,2 — H 6,8 — O 7,8 — N 9,1 — M. G. 614.

1) Carbonat d. Cinchonidin. Sm. 117° (*C.* 1900 [1] 319). — *III, 641. C 71,7 — H 7,2 — O 14,7 — N 6,4 — M. G. 653. C₈₉H₃₉O₁₂N C39H42O3N4 $C_{89}H_{47}O_6N_3$ 1) Solanidin (B. 36, 3206 C. 1903 [2] 1066). C40-C95-Gruppen. C40H26O4 C 84,2 — H 4,6 — O 11,2 — M. G. 570. 1) Peroxyd (aus 9-Chlor-10-Keto-9-Phenyl-9, 10-Dihydroanthracen). Sm. 219° (B. 37, 3340 C. 1904 [2] 1057). C 81,9 — H 4,4 — O 13,7 — M. G. 586. C40 H26 O5 1) Dibenzoat d. 10-Keto-9,9-Di[4-Oxyphenyl]-9,10-Dihydroanthracen. Sm. 224—225° (B. 36, 2022 C. 1903 [2] 378). C 81,6 — H 4,7 — O 13,6 — M. G. 588. $\mathbf{C_{40}H_{28}O_5}$ 1) Anhydroverbindung d. Base $C_{40}H_{80}O_6$. $HCl-1^{1/2}H_{2}O$, Pikrat (B. 36, 3052 C. 1903 [2] 1009). $HCl + \frac{1}{2}H_2O$, $H_2SO_4 +$ $\mathbf{C}_{40}\mathbf{H}_{30}\mathbf{O}_{4}$ C 83,6 — H 5,2 — O 11,2 — M. G. 574. 1) Säure (aus α-Oxydiphenylessigsäure). Sm. 208-210° u. Zers. K+ H₂O, Ag (B. 29, 735). — *II, 993. C 79,2 — H 5,0 — O 15,8 — M. G. 606. 1) Dilakton d. Säure C₄₀H₃₄O₈. Sm. 168° (B. 32, 2332; B. 36, 3047) C40 H30 O6 C. 1903 [2] 1008). 2) Base (aus der Verbindung $C_{40}H_{28}O_6$). Na₂ + 2H₂O, K₂ + 2H₂O (B. **36**, 3052 C. **1903** [2] 1009). 3) Verbindung (aus Resorcin u. Benzil) (B. 36, 3051 C. 1903 [2] 1009). C 87,9 — H 6,2 — O 5,9 — M. G. 546.

1) Peroxyd d. α-Oxy-4-Methyltriphenylmethan. Sm. 170—171° C40H34O2 (B. 37, 1633 C. 1904 [1] 1649). $\mathbf{C_{40}H_{34}O_8}$ C 74,8 — H 5,3 — O 19,9 — M. G. 642. 1) Säure $+2 \, \mathrm{H}_{2}\mathrm{O}$ (aus Resorcin u. Benzil). $(\mathrm{NH}_{4})_{2} + 2 \, \mathrm{C}_{2}\mathrm{H}_{6}\mathrm{O}$, $\mathrm{Na}_{2} + 4 \, \mathrm{H}_{2}\mathrm{O}$, $\mathrm{Na}_{3} + 9 \, \mathrm{H}_{2}\mathrm{O}$, $\mathrm{Na}_{6} + 2 \, \mathrm{C}_{2}\mathrm{H}_{6}\mathrm{O} + 8 \, \mathrm{H}_{2}\mathrm{O}$, $\mathrm{K}_{2} + 2 \, \mathrm{C}_{2}\mathrm{H}_{6}\mathrm{O}$ (B. 36, 3047 C. 1903 [2] 1008).

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\mathbf{C}_{40}\mathbf{H}_{44}\mathbf{O}_{20}
                                         C 56,9 — H 5,2 — O 37,9 — M. G. 844.
                                   1) Erythrin + 2H<sub>2</sub>O. Sm. 146—148° (Bl. [3] 31, 610 C. 1904 [2] 98). C 55,7 — H 5,3 — O 39,0 — M. G. 862.
   \mathbf{C}_{40}\mathbf{H}_{46}\mathbf{O}_{21}
                                   C 55,7 — H 5,5 — 0 59,0 — M. G. 802.

1) Anhydrodierythrinsäure (Bl. [3] 31, 611 C. 1904 [2] 99).

C 80,0 — H 9,3 — 0 10,7 — M. G. 600.

1) Careleminsäure. Sm. 215° (Ar. 241, 151 C. 1903 [1] 1029).

2) Isocareleminsäure. Sm. 75° (Ar. 241, 149 C. 1903 [1] 1029).

C 85,4 — H 11,7 — 0 2,8 — M. G. 562.

1) Verbindung (aus Asclepias syriaca L.). Fl. (J. pr. [2] 68, 416
   \mathbf{C_{40}H_{56}O_4}
   \mathbf{C}_{40}\mathbf{H}_{66}\mathbf{O}
                                         C. 1904 [1] 105).
                                  1) Sulfid (aus Campher). Sm. 145—155° (B. 36, 866 C. 1903 [1] 972). C 80,8 — H 4,4 — O 5,4 — N 9,4 — M. G. 594. 1) 4,4'-Di[2-Naphtylazo]-3,3'-Dioxy-2,2'-Binaphtyl (C. r. 138, 1618
   \mathbf{C}_{40}\mathbf{H}_{68}\mathbf{S}_{5}
   \mathbf{C}_{40}\mathbf{H}_{26}\mathbf{O}_{2}\mathbf{N}_{4}
                                        C. 1904 [2] 338).
                                  1) Sulfonsäure (aus d. Verb. C<sub>40</sub>H<sub>28</sub>O<sub>5</sub>) (B. 36, 3054 C. 1903 [2] 1009). C 72,5 — H 5,1 — O 9,7 — N 12,7 — M. G. 662. 1) Bisdiazoamidorosanilin (Bl. [3] 31, 646 C. 1904 [2] 109).
  \mathbf{C}_{40}\mathbf{H}_{32}\mathbf{O}_{14}\mathbf{S}_{2}
   C40H34O4N6
  C40 H38 O9 N6
                                        C 64,3 - H 5,1 - O 19,3 - N 11,3 - M. G. 746.
                                  1) Tetra[Phenylamidoformiat] d. \alpha-[\beta\gamma\delta s-Tetraoxyamyl]-\beta-Phenyl-
                                        harnstoff (Arabinaminphenylharnstofftetracarbamat). Sm. 3030 u.
                                       Zers. (C. r. 136, 1081 C. 1903 [1] 1305).

2) Verbindung (aus d. Verb. C<sub>17</sub>H<sub>28</sub>O aus Guttapercha). Sm. 170° (C. 1903 [1] 83).
1) Tri [2 - Oxy - 1 - Naphtylmethyl]amin + Benzoylchlorid. HCl

  C_{40}H_{63}O_{3}C1
  \mathbf{C_{40}H_{32}O_4NCl}
                                       (G. 34 [1] 221 C. 1904 [1] 1523).
                                 1) Dibenzylbrillantgelb (B. 36, 2977 C. 1903 [2] 1031).

1) Nukleïnsäure (Rhomnol) (C. 1904 [1] 602).

1) Thymusnucleïnsäure (C. 1903 [2] 1013).

2) Methylester d. Säure C<sub>40</sub>H<sub>30</sub>O<sub>4</sub>. Sm. 208—209° (B. 29, 736). —
  C40H32O8N4S2
  \mathbf{C}_{40}\mathbf{H}_{50}\mathbf{O}_{27}\mathbf{N}_{14}\mathbf{P}_{4}
  \mathbf{C}_{40}^{*}\mathbf{H}_{56}\mathbf{O}_{26}\mathbf{N}_{14}\mathbf{P}_{4}
  \mathbf{C}_{41}\mathbf{H}_{32}\mathbf{O}_{4}
                                 *II, 993.
C 71,9 — H 4,7 — O 23,4 — M. G. 684.
1) Pentabenzoat d. 1-Quercit. Sm. 148°. + C<sub>2</sub>H<sub>6</sub>O (Soc. 85, 627 C. 1904 [2] 329).
 C41H32O10
 \mathbf{C}_{41}\mathbf{H}_{34}\mathbf{O}_{5}
                                 1) Verbindung (aus Benzophenon u. Benzaldehyd). Sm. 236—237° (B. 36, 1579 C. 1903 [1] 1398). C 84,5 — H 5,8 — N 9,6 — M. G. 582.

1) Chinoxalinderivat aus Phenanthrenchinon u. Di[4-Dimethyl-
 \mathbf{C}_{41}\mathbf{H}_{34}\mathbf{N}_{4}
                                      amidophenyl -3,4-Diamido-l-Naphtylmethan. Sm. oberh. 336°
                                      (B. 37, 1910 C. 1904 [2] 115).
C 86,4 — H 6,2 — N 7,4 — M. G 569.
 \mathbf{C}_{41}\mathbf{H}_{35}\mathbf{N}_{3}
                                 1) 4- Dimethylamidophenyldi [4-Phenylamido-1-Naphtyl]methan (B. 37, 1911 C. 1904 [2] 115). C 68,3 — H 5,0 — O 26,7 — M. G. 720.
 \mathbf{C}_{41}\mathbf{H}_{86}\mathbf{O}_{12}
                                 1) Pentaacetat d. Dichrysarobinmethyläther. Sm. 135° (Soc. 81, 1583 C. 1903 [1] 34, 167).
C 80,6 — H 11,5 — 0 7,8 — M. G. 610.
C_{41}H_{70}O_3
                                1) Verbindung (aus Cyklogallipharsäure). Sm. 48° (Ar. 242, 272
                                C. 1904 [1] 1654).
C 83,9 — H 3,8 — O 2,7 — N 9,6 — M. G. 586.
1) Azin (aus Phenanthrenchinon u. 3,4,3',4'-Tetraamidodiphenylketon).
\mathbf{C}_{41}\mathbf{H}_{22}\mathbf{ON}_{4}
                                      Zers. bei 160° (G. 34 [1] 381 C. 1904 [2] 111).
\mathbf{C}_{41}\mathbf{H}_{32}\mathbf{O}_{8}\mathbf{N}_{4}
                                      C 69.5 - H 4.5 - O 18.0 - N 7.9 - M. G. 708.
                                1) Methylendicotoïndisazobenzol. Sm. 246° (A. 329, 277 C. 1904
                                      [1] 795).
                                      C'81,6'-H 5,5 - O 10,6 - N 2,3 - M. (‡. 603.
C_{41}H_{33}O_4N
                                1) Tribenzyläther d. Phenolphtaleinoxim. Sm. 134° (B. 36, 2967
                                      C. 1903 [2] 1007).
C_{41}H_{34}O_{2}N_{4}
                                      C 80,1 - H 5,5 - O 5,2 - N 9,1 - M. G. 614.
                                1) 3-Nitro-4-Dimethylamidophenyldi[4-Phenylamido-l-Naphtyl]-
                                methan (B. 37, 1912 C. 1904 [2] 115).
1) Chlorid d. \alpha-Oxy-\alpha-[4-Dimethylamidophenyl]-\alpha\alpha-Di[4-Phenyl-
\mathbf{C}_{41}\mathbf{H}_{34}\mathbf{N}_{3}\mathbf{C}1
                                     amido-1-Naphtyl] methan (B. 37, 1914 C. 1904 [2] 116).
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C 63.5 - H 4.8 - O 22.7 - N 9.0 - M. G. 775.
 C41 H87 O11 N5
                         1) Penta[Phenylamidoformiat] d. d-Galaktose. Sm. 275° u. Zers.
                             (C. r. 138, 634 C. 1904 [1] 1068).
                         2) Penta[Phenylamidoformiat] d. d-Glykose. Sm. 255° (C. r. 138,
                             634 C. 1904 [1] 1068).
                         C 68,6 — H 7,1 — O 22,3 — N 2,0 — M. G. 717.
1) Dibenzoyldevin. Sm. 195—196°. HCl + H<sub>2</sub>O, Benzoat (B. 37,
 C41 H51 O10 N
                            1951 C. 1904 [2] 126).
 C<sub>41</sub>H<sub>44</sub>O<sub>18</sub>N<sub>10</sub>Cr 1) Verbindung (aus Diphenylcarbazid) (Bl. [3] 31, 298 C. 1904 [1]
                            1176).

    α-Nukleïnsäure. Ba (H. 39, 556 C. 1903 [2] 1285).
    Bisdinaphtoxanthen. Sm. 300° u. Zers. (C. r. 136, 380 C. 1903

 \mathbf{C}_{41}\mathbf{H}_{74}\mathbf{O}_{26}\mathbf{N}_{14}\mathbf{P}_{4}
 C_{42}H_{26}O_2
                            [1] 647).
 C_{42}H_{26}O_8
                        *1) Bisdinaphtoxanthenoxyd (C. 1904 [2] 122).
                            C 90,0 — H 5,0 — N 5,0 — M. G. 560.
Naphtakrihydridin. Sm. 235—236° (225—226°) (Soc. 73, 541;
 C_{42}H_{28}N_2

    Naphtakrihydridin. Sm. 235—236° (2
B. 35, 4169 C. 1903 [1] 172).
    C 77,8 — H 4,9 — O 17,3 — M. G. 648.

 C_{42}H_{32}O_7
                         1) Acetat d. Dilakton C<sub>40</sub>H<sub>30</sub>O<sub>6</sub>. Sm. 120° (B. 36, 3047 C. 1903 [2]
                            1008).
                        C 74,1 — H 4,7 — O 21,2 — M. G. 680.
1) Tribenzoat d. Curcumin. Sm. 176—178° (Soc. 85, 63 C. 1204
 C_{49}H_{32}O_9
                            [1] 729).
 C49 H34O7
                            C 77,6 — H 5,2 — O 17,2 — M. G. 650.
                         1) Verbindung (aus d. Verb. C_{40}H_{28}O_5) (B. 36, 3053 C. 1903 [2] 1009).
 \mathbf{C}_{42}\mathbf{H}_{36}\mathbf{O}_{13}
                         2) Hexaacetat d. Dichrysarobin. Sm. 179-181 (Soc. 81, 1581
                            C. 1903 [1] 34, 167).
 \mathbf{C_{42}H_{88}O_{2}}
                            C 87,8 - H 6,6 - O 5,6 - M G. 574.

    Peroxyd d. α-Oxy-4,4'-Dimethyltriphenylmethan. Sm. 147 bis
148° (B. 37, 1631 C. 1904 [1] 1649).

                        2) \gamma \delta - Dioxy - \alpha \alpha \gamma \delta \zeta \zeta - Hexaphenylhexan. Sm. 195° (Am. 29, 356)
                            C. 1903 [1] 1180; Am. 31, 644 C. 1904 [2] 445).
                        C 54,0 — H 4,9 — O 41,1 — M. G. 934.
1) Heptaacetat d. Cocacitrin. Sm. 118^{\circ} (J. pr. [2] 66, 406 C. 1903
 C_{42}H_{46}O_{24}
                            [1] 527).
                            C 44,2 — H 5,3 — O 50,5 — M. G. 1140.
 C_{42}H_{60}O_{36}
                        1) Monoformiat d. Stärke (C. 1904 [2] 1029).
 \mathbf{C}_{42}\mathbf{H}_{26}\mathbf{N}_{2}\mathbf{Cl}_{2}
                        1) Bi[β-Naphtakridin]dichlorid. Sm. noch nicht bei 300° (Soc. 85,
                            1205 C. 1904 [2] 1060).
                        1) Bi[α-Naphtakridin]hexabromid. Sm. 234° u. Zers. (Soc. 85, 1204
 C42H26N2Br
                            C. 1904 [2] 1060).
                        2) Bi[\beta-Naphtakridin]hexabromid (Soc. 85, 1205 C. 1904 [2] 1060).
 C_{42}H_{26}N_2J_6
                        1) Bi[a-Naphtakridin]hexajodid (Soc. 85, 1204 C. 1904 [2] 1060).
                        1) 1-[4,4'-Biphenylazo]-2-Merkapto-4,5-Diphenylimidazol. Sm. 120 bis 122° u. Zers. (B. 37, 700 C. 1904 [1] 1562).
1) Verbindung (aus d. Verb. C_{40}H_{28}O_6 u. Acetylchlorid) (B. 36, 3053
 C42 H30 N8S2
 C_{42}H_{81}O_6Cl
                            C. 1908 [2] 1009).
C 68,5 — H 6,0 — O 21,7 — N 3,8 — M. G. 736.
 \mathbf{C_{42}H_{44}O_{10}N_{2}}
                        1) Tetraacetylpseudomorphin +8 \, \rm H_2O. Sm. 276° (wasserfrei). 2 HCl +4 \, \rm H_2O, (2 HCl, PtCl<sub>4</sub> +6 \, \rm H_2O) (4r. 228, 586; A. 222, 245). —
                           *III, 678.
C_{42}H_{34}ON_2J_2
                        1) Di[Jodäthylat] d. 5-[3-Oxyphenyl]akridinäther. Sm. 208—209°
                        (Bl. [3] 31, 1090 C. 1904 [2] 1509).

C 71,9 — H 3,6 — O 24,5 — M. G. 718.

Tetrabenzoat d. 3,5,7-Trioxy-2-[3,4-Dioxyphenyl]-1,4-Benz-pyron (T. d. Quercetin). Sm. 239° (Ar. 229, 246). — *III, 448.

C S1,9 — H 5,4 — O 12,7 — M. G. 630.
C48H26O11
C_{49}H_{34}O_5
                        1) Dibenzoat d. αε-Dioxy-γ-Keto-αβδε-Tetraphenylpentan. Sm. 136°
                           (M.\ 24,\ 722\ C.\ 1904\ [1]\ 167). C 86.4 — H 6.5 — N 7.0 — M. G. 597.
C_{43}H_{39}N_8
                       1) 4-Dimethylamidophenyldi[4-p-Methylphenylamido-l-Naphtyl]-
                           methan (B. 37, 1911 C. 1904 [2] 115).
C 69,2 — H 9,4 — O 21,4 — M. G. 746.
\mathbf{C}_{48}\mathbf{H}_{70}\mathbf{O}_{10}
                       1) Porin. Sm. 166° (J. pr. [2] 68, 62 C. 1903 [2] 513).
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C48H70O15
                              C 62,5 — H 8,5 — O 29,0 — M. G. 826.
                         1) Gratiolin. Sm. 235—237° u. Zers. (Ar. 240, 564 C. 1903 [1] 42). C 83,2 — H 11,6 — O 5,2 — M. G. 620.
1) Tacamahinsäure. Sm. 95° (Ar. 242, 396 C. 1904 [2] 527). C 80,4 — H 5,9 — O 5,0 — N 8,7 — M. G. 642.
  C43H72O2
  C43H38O2N4
                          1) 3 - \text{Nitro} - 4 - \text{Dimethylamidophenyldi}[4 - p - \text{Methylphenylamido-}]
                             1-Naphtyl]methan (B. 37, 1912 C. 1904 [2] 115).

    Chlorid d.α-Oxy-α-[4-Dimethylamidophenyl]-αα-Di[4-p-Methyl-phenylamido-l-Naphtyl]methan (B. 37, 1914 C. 1904 [2] 116).

 C_{43}H_{38}N_3Cl
 C_{44}H_{22}
                             C 96,0 — N 4,0 — M. G. 550.
                         1) \alpha\beta-Tri[4-Methylphenyl]äthan (B. 37, 1628 C. 1904 [1] 1648).
 C44H22O7
                             C 78,6 - H 4,8 - O 16,6 - M. G. 672.

    Diacetat d. Verb. C<sub>40</sub>H<sub>28</sub>O<sub>5</sub> (B. 36, 3053 C. 1903 [2] 1009).
    C 88,9 — H 5,7 — O 5,4 — M. G. 594.

 C_{44}H_{34}O_{2}
                         1) 1,4 - Di[4 - Oxytriphenylmethyl] benzol.
                                                                                            Sm. 304° (B. 37, 2007
                             C. 1904 [2] 225).
C 78,3 — H 5,0 — O 16,6 — M. G. 674.
 C44H34O7
                         1) Diacetat d. Verb. C_{40}H_{30}O_{5} (B. 36, 3053 C. 1903 [2] 1009).
2) Diacetat d. Dilakton C_{40}H_{30}O_{6}. Sm. 161° (B. 36, 3047 C. 1903
 C_{44}H_{34}O_8
                             [2] 1008).
 \mathbf{C}_{44}\mathbf{H}_{36}\mathbf{N}_2
                             C 89,2 -
                                         - H 6,1 - N 4,7 - M. G. 592.
                        1) 1,4-Di[4-Amidotriphenylmethyl]benzol. Sm. 358°. 2HCl (B. 37,
                             2004 C. 1904 [2] 225).
                        2) 1,4-Di[α-Phenylamidodiphenylmethyl]benzol. Sm. 225° (B. 37,
                        2004 C. 1904 [2] 225).

C 87,7 — H 7,0 — O 5,3 — M. G. 602.

1) Peroxyd d. α-Oxytri[4-Methylphenyl]methan. Sm. 169—170°

(B. 37, 1628 C. 1904 [1] 1648).

C 78,3 — H 9,8 — O 11,9 — M. G. 674.
C_{44}H_{42}O_{2}
C_{44}H_{66}O_5
                       1) Aether d. α-Oxy-αα-Dicamphoryläthan. Sm. 90-95° (B. 36, 2636 C. 1903 [2] 626).
                        C 77,7 — H 4,1 — O 14,1 — N 4,1 — M. (†. 680.
1) Tetrabenzoylindigweiss. Sm. 217—218° (B. 36, 2765 C. 1903
 C44H28O6N2
                            [2] 835).
 C_{44}H_{43}ON
                             C_{87,8} - H_{7,2} - O_{2,7} - N_{2,3} - M_{6,601}
                        1) Di[4-Methylphenyl]methylhydroxylamin. Sm. 155° (B. 37, 3161
                            C. 1904 [2] 1049).
C 69,3 — H 6,6 — O 16,8 — N 7,3 — M. G. 762.
\mathbf{C_{44}H_{50}O_{8}N_{4}}
                        1) o, o - Ditolyldisazodisantonsäure. Sm. 164-1660 (B. 36, 1396
                            C. 1903 [1] 1360).
C_{44}H_{92}O_8N
                        1) Pseudocerebrin. Sm. 210° (212°) (H. 43, 22 C. 1904 [2] 1550).
                        1) Verbindung (aus s-Dichlormethyläther u. Strychnin). (A. 330, 117 C. 1904 [1] 1063).
\mathbf{C}_{44}\mathbf{H}_{48}\mathbf{O}_{5}\mathbf{N}_{4}\mathbf{Cl}_{2}
\mathbf{C_{44}H_{50}O_6N_2Br_2}
                        1) Dibebeerinxylylenammoniumbromid. Sm. 258° (Ar. 236, 539).
                              - *III, 621.
                      *1) Glycerintrimyristin. Sm. 55° (B. 36, 4344 C. 1904 [1] 434).
C 56,8 — H 3,2 — O 25,3 — N 14,7 — M. G. 950.
1) Verbindung (aus 1,3-Dinitrobenzol u. Accton). Ba (B. 37, 836
C45H86O6
C45H30O15N10
                            C. 1904 [1] 1201).
                       1) Tri[Dibenzoylmethyl]siliciumhydroxyd. Salze siehe (B. 36, 1599
C_{45}H_{84}O_{7}Si
                       C. 1903 [2] 30; B. 36, 3209 C. 1903 [2] 1058).

1) Tri[Dibenzoylmethyl]siliciumchlorid. HCl, + FeCl<sub>3</sub>, + AuCl<sub>3</sub> (B. 36, 1599 C. 1903 [2] 30; B. 36, 3209 C. 1903 [2] 1058).

1) Tri[Dibenzoylmethyl]siliciumbromid. <sup>1</sup>/<sub>2</sub> HBr, HBr (B. 36, 3210
C<sub>45</sub>H<sub>83</sub>O<sub>6</sub>ClSi
C_{45}H_{33}O_6BrSi
                            C. 1903 [2] 1058).
                       1) Tri|Dibenzoylmethyl]siliciumjodid. + J_2 (B. 36, 3211 U. 1903
C45H33O6JSi
                       [2] 1058).

1) Verbindung (aus Pferdehaar) (C. 1903 [2] 128).

C 89,3 — H 5,5 — O 5,2 — M. G. 618.
C_{45}H_{78}O_{20}N_{10}S
C46H34O2
                       1) Peroxyd d. \alpha-Oxydiphenyl-1-Naphtylmethan (B. 37, 1638 C. 1904)
                           [1] 1649).
C46H40N2
                                        - H 6,4 — N 4,5 — M. G. 620.
                       1) 1,4-Di[4-Amido-3-Methyltriphenylmethyl]benzol. Sm. 277°.
                           2 HCl (B. 37, 2005 C. 1904 [2] 225).
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C 75,8 — H 11,0 — O 13,2 — M. G. 728.
 C46H80O6
                        1) \beta-Benzoat-\alpha\gamma-Distearat d. \alpha\beta\gamma-Trioxypropan. Sm. 64° (C. 1903)
                            [1] 134).
 \mathbf{C}_{46}\mathbf{H}_{50}\mathbf{ON}_{6}
                            C^{7}8,6 - H^{7},1 - O^{2},3 - N^{12},0 - M.G.^{7}02.
                        1) 3,3'-Di[Di(4-Dimethylamidophenyl)methyl]azoxybenzol. 176° (B. 36, 3472 C. 1903 [2] 1269).
                                                                                                                  Sm.
  C_{46}H_{68}O_{20}N_8S
                        1) Farbstoff (aus schwarzer Schafwolle) (C. 1903 [2] 128).
                            C 64.5 - H 6.2 - O 29.3 - M. G. 874.
  C47H54O16
                        1) Filmaron (oder C<sub>47</sub>H<sub>52</sub>O'<sub>16</sub>). Ca (C. 1903 [1] 1090; Ar. 242, 490
                            C. 1904 [2] 1417).
                        1) Tetrabenzoat d. Phloroglucinphtalein (B. 36, 1072 C. 1903 [1]
  C48 H98 O11
                           1181).
                            C 90,3 — H 5,3 — N 4,4 — M. G. 638.
  C48H84N2
                        1) 2,3,5,6-Tetraphenyl-1,4-Di[1-Naphtyl]-1,4-Dihydro-1,4-Diazin.
                           Sm. 223° (C. r. 138, 1612 C. 1904 [2] 344).
C 88,9 — H 6,8 — N 4,3 — M. G. 648.
  C_{48}H_{44}N_{2}
                        1) 1,4-Di[4-Methylamido-3-Methyltriphenylmethyl]benzol.
                           287° (B. 37, 2006 C. 1904 [2] 225).
C 59,7 — H 7,0 — O 33,2 — M. G. 964.
 C49 H68 O20
                        1) Pentaacetat d. Strophantin. Sm. 236-238° (M. 19, 396). - *III,
                        2) Verbindung (aus Glykose). = (C_6H_{10}O_5)_8 + H_2O (A. 329, 356)
 C48H82O41
                           C. 1904 [1] 436).
C 85,7 — H 5,3 — O 4,8 — N 4,2 — M. (4. 672.
 C_{48}H_{86}O_2N_2
                       1) Ketazin d. 3-Benzoylmethyl-2,5-Diphenylfuran. Sm. 219-2200
                           (B. 36, 2434 C. 1903 [2] 503).
C 85,2 — H 5,9 — O 4,7 — N 4,1 — M. G. 676.
 \mathbf{C}_{48}\mathbf{H}_{40}\mathbf{O}_{2}\mathbf{N}_{2}
                       1) 1,4-Di[4-Acetylamidotriphenylmethyl] benzol. Sm. 231° (B. 37,
                           2005 C. 1904 [2] 225).
 \mathbf{C_{48}H_{44}O_{12}N_6}
                          C 64,3 - H 4,9 - O 21,4 - N 9,4 - M. G. 896,
                       1) Hexa[Phenylamidoformiat] d. Dulcit. Sm. 3150 (C. r. 138, 635
                           C. 1904 [1] 1068).
                       2) Hexa[Phenylamidoformiat] d. d-Mannit. Sm. 303° (C. r. 138,
                          635 C. 1904 [1] 1068)
 C49H36O13
                           C 70,7 — H 4,3 — Ó 25,0 — M. G. 832.
                       1) Tetrabenzoat d. Barbaloïn (C. 1903 [1] 234; Bl. [3] 21, 672). —
                           *III, 453.
                       C 63,1 — H 5,1 — O 13,7 — N 18,0 — M. G. 932.

1) Tetra[Benzylidenhydrazid] d. Hippurylasparagrisgramgin-säure. Sm. oberh. 150° u. Zers. (J. pr. [2] 70, 190 (... 1903 ]; ...).

3) Pentabenzoat d. Cyanomaklurin. Sm. 171—173° (C. 1904 [2] 439).
 C_{49}H_{48}O_8N_{12}
 C50H34O11
                       C 69,4 — H 4,6 — O 25,9 — M. G. 864.

1) Tetrabenzoat d. Homonataloïn (C. r. 128, 1403; C. 1903 [1] 291;
 C_{50}H_{40}O_{14}
                           Bl. [3] 27, 1229 C. 1903 [1] 401). — *III, 455.
C 84,3 — H 11,2 — O 4,5 — M. G. 712.
 C50H80O2
                          Verbindung (aus Kautschuk) (C. 1904 [2] 705).
                       2) Verbindung (aus Pontianakharz) (C. 1904 [1] 518).
C 74,4 — H 6,7 — O 11,9 — N 6,9 — M. G. 806.
 C50H54O6N4
                       1) 1, 3 - Xylylendistrychniniumhydroxyd. Bromid, Pikrat (B. 36,
                          1680 C. 1903 [2] 29).
                       2) 1,3-Xylylendistrychniniumbromid. + 6 CH<sub>4</sub>O (B. 36, 1680
 \mathbf{C}_{50}\mathbf{H}_{54}\mathbf{O}_{4}\mathbf{N}_{4}\mathbf{Br}_{2}
                      C. 1903 [2] 29).

1) Farbstoff (aus schwarzem Rosshaar) (C. 1903 [2] 128).

C 69,7 — H 4,8 — O 25,5 — M. G. 878.

1) Tetrabenzoat d. Nataloïn (C. 1903 [1] 291; Bl. [3] 27, 1229 C. 1903
 C_{50}H_{58}O_{12}N_8S
 \mathbf{C}_{51}\mathbf{H}_{42}\mathbf{O}_{14}
                          [1] 401). — *III, 454.
                     *1) Tripalmitat d. \alpha\beta\gamma-Trioxypropan. Sm. 65,5° (C. 1903 [1] 133). C 80,3 — H 13,4 — O 6,3 — M. G. 762. 1) trim. Aldehyd d. Margarinsäure. Sm. 77—78° (Soc. 85, 835)
C51 H98 O6
C_{51}H_{102}O_3
                          C. 1904 [2] 509).
C_{52}H_{70}O_{81}
                          Č 52,4 — H 5,9 — O 41,7 — M. G. 1190.
                      1) Tetradekaacetat eines Mannotetrasaccharid (aus Salepschleim)
                         (B. 36, 3201 C. 1903 [2] 1055).
\mathbf{C}_{52}\mathbf{H}_{82}\mathbf{O}_{23}
                    *1) Aphrodäscin (C. 1903 [2] 1133).
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C_{52}H_{94}O_{11}
                                    C 69,8 — H 10,5 — O 19,7 — M. G. 894.
                               1) Anhydrid d. Diacetoxylbehensäure. Sm. 63° (B. 36, 3606 C. 1903
                                    [2] 1314).
                             C 61,5 — H 8,7 — O 28,4 — N 1,4 — M. G. 1013.

1) Solanin (B. 36, 3204 C. 1903 [2] 1066).

*1) Solanin (B. 36, 3554 C. 1903 [2] 1376).

1) Farbstoff (aus Chinizarinhydrür u. 2, 2'- Diamidodiphenyldisulfid)
  C<sub>52</sub>H<sub>87</sub>O<sub>18</sub>N
  C52H93O18N
  C_{52}H_{32}O_4N_4S_4
                             1) Farbstoff (aus Chinizarinhydrür u. 2, 2 - Diamidouipnenymus, (C. 1904 [2] 1175).

1) Hippomelanin + ½ H<sub>2</sub>O (J. Th. 1886, 478). - *III, 491.

1) Guanylsäure (C. 1903 [2] 385).

C 76,4 - H 12,0 - O 11,5 - M. (4. 832.

1) Glycerindipalmitinoleïn. Sm. 29,2° (33-34°) (M. 24, 411 C. 1903 [2] 629; M. 25, 932 C. 1904 [2] 1617).

C 76,3 - H 12,2 - O 11,5 - M. (4. 834.

1) **P Dipalmitatar Steprat d. (280-Trioxydropan. Sm. 60° (C. 1903)
  C_{52}H_{39}O_{18}N_9S
  C_{52}H_{80}O_{40}N_{20}P_4
  C_{53}H_{100}O_{8}
 C_{58}H_{102}O_6
                              1) \alpha\beta-Dipalmitat-\gamma-Stearat d. \alpha\beta\gamma-Trioxypropan. Sm. 60° (\mathcal{O}. 1903
                                   [1] 134).
                              2) \alpha \gamma-Dipalmitat-\beta-Stearat d. \alpha \beta \gamma-Trioxypropan. Sm. 60° (C. 1903 [1] 134).
                                   C^{1}82,2^{2}-H_{1}4,4-O_{1}6,2-N_{1}7,2-M_{1}G_{1}. 774.
 C_{53}H_{34}O_3N_4
                              1) Azin (aus Phenanthrenchinon u. 3,3'-Diamido 4,4'-Di[Phenylamido]-
                             diphenylketon). Sm. 220° (G. 34 [1] 379 C. 1904 [2] 111). C 79,6 — H 4,7 — O 15,7 — M. G. 814.

1) Dibenzoat d. Dilakton C<sub>40</sub>H<sub>30</sub>O<sub>6</sub>. Sm. 208° (B. 36, 3047 C. 1903
  C,4 H,8 O,
 C_{54}H_{50}O_{16}N_{6}
                                   C_{62,4} - H_{4,8} - O_{24,7} - N_{8,1} - M_{6,1}
                              1) Hexa[Phenylamidoformiat] d. Cellose. Sm. 280° (Bl. [3] 31, 857
                                   C. 1904 [2] 644).
                             1) Gem. Anhydrid d. Stearinsäure u. Borsäure. Sm. 73° (B. 36,
 C_{64}H_{105}O_6B
                                  2224 C. 1903 [2] 421).
                             1) Verbindung (aus 2,5-Dimerkapto-1,4-Benzochinon-2,5-Diphenyläther). Sm. 235° (A. 336, 143 C. 1904 [2] 1299). C 76,6 — H 12,3 — O 11,1 — M. G. 862.
 C54H42O6N2S6
 C55H106O6

    α-Palmitat-βγ-Distearat d. αβγ-Trioxypropan (α-Palmitodistearin).
    Sm. 63° (C. 1903 [1] 134; B. 36, 1125 C. 1903 [1] 1312; C. 1904

                             2) \beta-Palmitat-\alpha\gamma-Distearat d. \alpha\beta\gamma-Trioxypropan (\beta-Palmitodistearin). Sm. 63° (B. 36, 2767 C. 1903 [2] 896; C. 1904 [2] 414). C 74,3 — H 4,5 — O 18,0 — N 3,1 — M. G. 888. 1) Benzoylderivat d. Suprarenin (M. 24, 282 C. 1903 [2] 302).
C_{55}H_{40}O_{10}N_2
                                     - *III, 667.
                           *1) Chloridjodid d. Glycerid C_{55}H_{101}O_6 (B. 35, 4307 C. 1903 [1] 297). C 94,5 — H 4,5 — M. G. 712.
C<sub>55</sub>H<sub>104</sub>O<sub>6</sub>ClJ
\mathbf{C}_{56}\mathbf{H}_{40}
                             1) bim. 9,10-Dibenzylidenanthracen. Sm. 184° (M. 25, 797 C. 1904
                                 [2] 1137).
C 71,8 — H 4,3 — O 23,9 — M. (4. 936.
C58 H40 O14
                             1) Pentabenzoat d. Barbaloïn (C. 1903 [1] 234).
C56H42O
                                 C 92,1 - H 5,7 - O 2,2 - M. G. 730.
                            1) Aether d. 9-[α-Oxybenzyl]-10-Benzylanthracen. Sm. 213—215° (M. 25, 804 C. 1904 [2] 1137). C 81,7 — H 10,5 — O 7,8 — M. G. 822.
C56H86O4
                            1) Dicholesterylester d. Oxalsäure. Sm. 2240 (M. 24, 665 C. 1903
                            [2] 1236).
C 76,7 — H 12,3 — O 11,0 — M. (†. 876.
1) Glycerid (aus Schweinefett). Sm. 66° (B. 36, 2771 C. 1903 [2] 896;
C58H108O6
                                 C. 1904 [2] 414). C 76.2 - H 2.9 - O 14.5 - N 6.4 - M. G. 882.
C_{56}H_{26}O_8N_4
                            1) 1,2,2',1'-Anthrachinonazhydrin (B. 36, 3432 C. 1903 [2] 1279).
                            1) Pentabenzoat d. Tetrachlorbarbaloïn (Bl. [3] 21, 675). — *III, 453. C 75,2 — H 5,6 — O 16,1 — N 3,1 — M. G. 894. 1) Tribenzoylmethylpseudomorphin. 2HCl, (2HCl, PtCl<sub>4</sub>) (A. 294,
C_{58}H_{38}O_{14}Cl_4
\mathbf{C}_{56}\mathbf{H}_{50}\mathbf{O_9N_2}
                                217). — *III, 678.
C 64,2 — H 5,0 — O 21,4 — N 9,4 — M. G. 1045.
\mathbf{C}_{56}\mathbf{H}_{51}\mathbf{O}_{14}\mathbf{N}_{7}
                            1) Hepta[Phenylamidoformiat] d. Perseït. Sm. 297° (C. r. 138, 635
                                 C. 1904 [1] 1068).
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C 95.0 — H 5.0 — M. G. 720. C,TH. 1) Tribenzyltrinaphtylenbenzol (Tribenzyldekacylen), Sm. 270° (B/.131 31, 930 C. 1904 [2] 779). *1) Trioleat d. $\alpha\beta\gamma$ -Trioxypropan (C. 1903 [1] 133). *1) Glycerinoleïndistearin. Sm. 42° (44°) (B. 36, 2772 C. 1903 [2] C57H104O6 C57H108O6 897; M. 25, 931 C. 1904 [2] 1617). 897; M. 25, 931 C. 1904 [2] 1017.
*1) Tristearat d. αβγ-Trioxypropan. Sm. 71—71,5° (C. 1903 [1] 133). C 59,1 — H 5,0 — O 16,6 — N 19,3 — M. G. 1158.
1) Hydrazitetra [Benzylidenhydrazid] d. Hippuryldiasparagylasparaginsäure. Sm. 190° (J. pr. [2] 70, 193 C. 1904 [2] 1398).
1) Verbindung (aus weisser Schafwolle) (C. 1903 [2] 128).
1) Tetraacetat d. Verb. C₅₄H₄₂O₆N₂S₆. Sm. 163° (A. 336, 144 C. 1904 [2] 1200). C57H110O6 C57 H58 O18 N18 C61 H98 O20 N10 S CarH SO O N S C 79,2 — H 5,7 — O 15,1 — M. G. 954. 1) polym. Benzaldehyd. Sm. 125—130° (B. 36, 1575 C. 1903 [1] 1397). C 63,0 — H 9,5 — O 24,0 — N 3,5 — M. G. 1199. Cas Hs Oo $C_{83}H_{113}O_{18}N_{3}$ 1) Tri[P-Nitro-P-Oxystearat] d. $\alpha\beta\gamma$ -Trioxypropan (C. 1904 [1] 261). C 71,6 — H 4,5 — O 23,9 — M. G. 1072. C44H43O16 1) Hexabenzoat d. Homonataloin (C. r. 128, 1403; Bl. [3] 27, 1229 C: 1903 [1] 401). — *III, 455. C 71,8 — H 4,6 — O 23,8 — M. G. 1086. 1) Hexabenzoat d. Nataloïn (C. 1903 [1] 291; Bl. [3] 27,. 1229 C65H50O16 C. 1903 [1] 401). — *III, 454. 7. 1903 [1] 401. — 111, 404. 1) Verbindung (aus 2,5-Dimerkapto-1,4-Benzochinondiphenyläther u. 2 Molec. 2,3,5-Trimerkapto-1,4-Dioxybenzol-2,3,5-Triphenyläther). Sm. 164° (A. 336, 146 C. 1904 [2] 1299). C 63,1 — H 4,8 — O 23,5 — N 8,6 — M. G. 1294. $C_{AB}H_{AB}O_6S_8$ C₆₈H₆₉O₁₉N₆ 1) Okto Phenylamidoformiat d. Milchzucker. Sm. 275-280° (C. r. 138, 635 C. 1904 [1] 1068). 2) Okto [Phenylamidoformiat] d. Trehalose. Sm. 2830 (C. r. 138, 635 C. 1904 [1] 1068). C 75,0 — H 3,3 — O 21,7 — M. G. 1104. 15 1) Hexabenzoat d. Tridioxybenzoylenbenzol (B. 33, 2442). — *III, 1) Verbindung (aus Hämin) (H. 40, 427 C. 1904 [1] 680). 1) Penta[2-Naphtylsulfonat] d. Glutokyrin + H₂O. Sm. 137 bis 138° (C. 1903 [1] 1145; 1903 [2] 580). $_{5}N_{9}$ Fe 18 NoS. C 74.0 — H 5.8 — O 17.8 — N 2.4 18N2 M. G. 1168. 1) Verbindung (aus Formaldehyd u. 2-Oxynaphtalin). Sm. 158-160° (G. 34 [1] 215 C. 1904 [1] 1523). C 59,0 — H 6,5 — O 34,5 — M. G. 1484. 89 1) Tetrabenzoylconvolvulinsäure. Sm. 115—118° (C. 1897 [1] 419). - *III, *435*. C 71.0 — H 4,8 — O 24,2 — M. G. 1386. 21 1) Dekabenzoylanhydrodimannit. Sm. 155-156° (Bl. [3] 31, 619 C. 1904 [2] 97). 1) Verbindung (aus Hämin) (H 40, 425 C. 1904 [1] 680). N_{11} Fe 1) Undeka [Phenylamidoformiat] d. Melezitose. Sm. 180° u. Zers. (C. r. 138, 635 C. 1904 [1] 1068).

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ESK 113NO0-21-

Register der Eigennamen.

 Λ bieten $C_{18}H_{28}$ Abietein $C_{18}H_{28}$ Abietoresen $C_{20}H_{30}O$ Abyssinin $C_{20}H_{44}O_{19}$ Acakatechin $C_{18}H_{14}O_{8}$ Acocantherin $C_{30}H_{48}O_{12}N$ Adlumin $C_{30}H_{30}O_{12}N$ Adrenalin $C_{0}H_{13}O_{3}N$ Adrenalon $C_{0}H_{11}O_{3}N$ Achylro $C_{23}H_{25}N_{2J}$ Akonin $C_{18}H_{18}O_{28}N$ Akonin C₂₅H₄₁O₈N Albanan C₃₀H₄₄O Alectorinsäure C₂₇H₂₄O₁₃ Alizarincyaningrün $C_{28}H_{22}O_5N_2S$ Alizarinirisol $C_{21}H_{15}O_6NS$ Alizarinreinblau $C_{21}H_{15}O_5N_2BrS$ Alkannagrün $C_{34}H_{44}O_8$ Alkannaroth $C_{30}H_{32}O_7$ Alkannasäure $C_{30}H_{32}O_7$ Allomerochinen $C_0H_{15}O_2N$ $\begin{array}{l} \text{Alochrysin} \quad C_{15} H_8 \overset{1}{O}_5 \\ \text{Aloin} \quad C_{16} H_{18} \overset{1}{O}_7 \\ \text{Aloresinotamnol} \quad C_{23} H_{20} \overset{1}{O}_8 \end{array}$ Alstoni C₁₄H₃₈O
Alstoni C₁₄H₃₉O
Alstonin C₁₄H₃₉O
Alumidin C₃₀H₂₉O₀N
Amorphen C₁₅H₂₄
Anchusaroth C₃₀H₃₉O₈
Anchusasăure C₃₀H₃₉O₈ Anhydrodierythrinsäure Anhydrodierythrinsäure $C_{40}H_{46}O_{21}$ Anilopyrin $C_{17}II_{17}N_3$ Anthesterin $C_{28}H_{48}O$ Anthesterin $C_{28}H_{48}O$ Anthesterin $C_{28}H_{48}O$ Archive himografia

Apoinol $C_{6}H_{8}O_{4}$ Apopinol $C_{19}H_{18}O$ Ardisiol $C_{35}H_{46}O_{10}$ Areolatiol $C_{12}H_{10}O_{7}$ Areolatol $C_{19}H_{8}O_{4}$ Arnisterin $C_{28}H_{48}O_{2}$ Artemisinsäure $C_{15}H_{19}O_{3}$ Aspidin $C_{28}H_{32}O_{8}$ Aspidin $C_{25}H_{32}O_8$ Atractylen C15H24 Atractylol $C_{15}H_{26}O$ Atranorsäure $C_{20}H_{18}O_{9}$ Aucubigenin $C_{7}H_{9}O_{8}$ Aucubin C13H19O8

 $\begin{array}{c} \mathbf{B} \mathrm{arringtogenin} \quad \mathbf{C}_{10} \mathbf{H}_{16} \mathbf{O}_{8} \\ \mathrm{Barringtogenitin} \quad \mathbf{C}_{15} \mathbf{H}_{24} \mathbf{O}_{3} \\ \mathrm{Barringtonin} \quad \mathbf{C}_{18} \mathbf{H}_{28} \mathbf{O}_{10} \\ \mathrm{Beljiabieninsäure} \quad \mathbf{C}_{16} \mathbf{H}_{20} \mathbf{O}_{2} \\ \mathrm{Beljiabietinolsäure} \quad \mathbf{C}_{16} \mathbf{H}_{20} \mathbf{O}_{2} \\ \mathrm{Beljiabietinsäure} \quad \mathbf{C}_{20} \mathbf{H}_{30} \mathbf{O}_{2} \\ \mathrm{Beljiabietinsäure} \quad \mathbf{C}_{20} \mathbf{H}_{30} \mathbf{O}_{2} \\ \mathrm{Beljioresc:} \quad \mathbf{C} . \quad \mathbf{H}_{36} \mathbf{O} \\ \mathrm{Benzaurin} \quad \mathbf{C}_{19} \mathbf{H}_{16} \mathbf{O}_{3} \\ \mathrm{Benzaurin} \quad \mathbf{C}_{19} \mathbf{H}_{16} \mathbf{O}_{3} \\ \mathrm{Benzaurin} \quad \mathbf{C}_{20} \mathbf{H}_{44} \mathbf{O} \\ \mathrm{Billipurpurin} \quad \mathbf{C}_{22} \mathbf{H}_{44} \mathbf{O}_{5} \mathbf{N}_{4} \\ \mathrm{Biscumarin} \quad \mathbf{C}_{12} \mathbf{H}_{12} \mathbf{O}_{5} \\ \mathrm{Biscinaphtopyryl} \quad \mathbf{C}_{42} \mathbf{H}_{20} \mathbf{O}_{2} \\ \mathrm{Brasan} \quad \mathbf{C}_{16} \mathbf{H}_{10} \mathbf{O} \\ \mathrm{Butein} \quad \mathbf{C}_{15} \mathbf{H}_{12} \mathbf{O}_{5} \\ \mathrm{Butin} \quad \mathbf{C}_{15} \mathbf{H}_{12} \mathbf{O}_{5} \\ \\ \mathrm{Butin} \quad \mathbf{C}_{15} \mathbf{H}_{12} \mathbf{O}_{5} \\ \end{array}$

Calaminthon C₁₀H₁₆O
Camphancarbonsäure
C₁₁H₁₈O₂
Campherisochinon C₁₀H₁₄O₂
Campherisochinon C₁₀H₁₄O₂
Campholandiol C₁₀H₂₀O₂
Campholenalkohol C₁₀H₁₈O
Cannabinol C₂₁H₃₀O₂
Carbousninsäure C₁₈H₁₆O₄
Careleminsäure C₁₈H₁₆O₄
Careleminsäure C₃₇H₄₀O₄
Carieleminsäure C₃₇H₄₀O₄
Carielemisäure C₃₇H₄₀O₄
Carielemisäure C₃₇H₄₀O₄
Carielemisäure C₃₇H₄₀O₄
Carielemisäure C₃₇H₄₀O₄
Casimirin C₃₀H₃₂O₅N₂
Casimirol C₂₇H₄₈O₂
Ceratophyllin C₁₀H₁₂O₄
Cerebronsäure C₂₆H₂₀O₃
Ceropten C₁₈H₁₈O₄
Cetrarin C₂₆H₂₆O₁₂
Cetratasäure C₂₆H₂₆O₁₂
Cetratasäure C₂₆H₂₄O₁₄
Chaulmoograsäure C₁₈H₃₄
Chaulmoogrylalkohol
C₁₈H₈₄O
Chinizarinblau C₂₁H₁₅O₃N
Chinizarinblau C₂₁H₁₅O₃N
Chinizarinblau C₂₂H₁₇N₅
Chinoxalophenanthrazin
C₂₂H₁₂N₄
Chitoheptonsäure C₇H₁₄O₈
Cholestandion C₂₇H₄₄O₂
Cholestanonol C₂₇H₄₄O₂

Chrysarobin $C_{15}H_{12}O_3$ Ciliansäure $C_{20}H_{28}O_8$ Cineolen $C_{10}H_{18}$ Cineolen $C_{10}H_{18}$ Cineolen $C_{10}H_{18}$ Clupein $C_{30}H_{32}O_0N_{14}$ Clupeon $C_{28}H_{56}O_8N_{14}$ Cocacetin $C_{18}H_{19}O_7$ Cocacitrin $C_{28}H_{39}O_{17}$ Cocaflavetin $C_{29}H_{18}O_0$ Cocaflavin $C_{34}H_{38}O_{10}$ Cocaflavin $C_{34}H_{38}O_{10}$ Cocase $C_6H_{12}O_6$ Cocaose $C_6H_{12}O_6$ Cocaose $C_6H_{12}O_6$ Cocasăure $C_{18}H_{10}O_3N$ Coleleminsäure $C_{39}H_{66}O_4$ Cumaran C_8H_8O Cuspareïn $C_{34}H_{36}O_9N_5$ Cyanomaklurin $C_{15}H_{14}O_6$ Cyklamiretin $C_{15}H_{22}O_2$ Cyklen $C_{10}H_{16}$ Cyklogallipharol $C_{20}H_{36}O$ Cyklogallipharsäure $C_{21}H_{36}O_8$ Cytiosidin $C_{11}H_{11}ON$ Cytisolinsäure $C_{11}H_{10}O_8N$ Cytisolinsäure $C_{11}H_{10}O_8N$ Cytisolinsäure $C_{11}H_{10}O_8$

Decoeacetin C₁₅H₁₄O₆
Dehydrochinin C₂₀H₂₂O₂N₂
Dehydrochloridhämin
C₃₄H₃₂O₄N₄Fe
Dehydrocinehonidin
C₁₉H₂₀ON₂
Dehydrohämatin
C₃₄H₃₂O₄N₄Fe
Diazopapaverin C₂₀H₁₀O₄N₃
Dicamphendion C₂₀H₃₀O₂
Dicampherpinakon C₂₀H₃₂O₂
Dichrysarobin C₃₀H₂₄O₇
Digitsäure C₂₀H₁₂₀O₈
Dindigotin C₃₂H₁₆O₄N₄
Diffusin C₃₁H₃₈O₁₀
Dinaphtofluoflavin C₂₂H₁₄N₄
Dinaphtylentinophen
C₂₄H₁₂S
Diosein C₂₄H₃₈O₀
Duleid C₆H₁₀O₄
Dypnopinakolen C₂₅H₂₂

RICHTER, Lex. d. Kohlenstoffverb. Suppl. III.

 $\begin{array}{l} Elaeomargarins \"{a}ure C_{18} H_{32} O_2 \\ Emetin \ C_{28} H_{40} O_5 N_2 \\ Epinephrin \ C_{10} H_{18} O_3 N \\ Epinephrinhydrat \ C_9 H_{13} O_3 N \\ Erythrin \ C_{40} H_{44} O_{20} \\ Eudesmin \ C_{28} H_{30} O_8 \\ Eupophin \ C_{18} H_{20} O_2 NBr \\ Evernurol \ C_{23} H_{26} O_7 \\ Evernurs \"{a}ure \ C_{24} H_{26} O_9 \\ Euphorbon \ C_{27} H_{44} O \end{array}$

 $\begin{array}{lll} Farnesol & C_{15}H_{26}O \\ Filmaron & C_{47}H_{54}O_{16} \\ Flavanon & C_{15}H_{12}O_{2} \\ Flavonol & C_{15}H_{10}O_{3} \\ Fluoresceïnsäure & C_{20}H_{14}O_{6} \\ Fukonsäure & C_{4}H_{12}O_{6} \\ Fukugetin & C_{17}H_{12}O_{6} \end{array}$

 $\begin{array}{c} Gralbanumsäure \ C_{18}H_{20}O_{2} \\ Galipol \ C_{15}H_{26}O \\ Gallipharsäure \ C_{16}H_{32}O_{2} \\ Galloflavin \ C_{15}H_{5}O_{10} \\ Galloflavin \ C_{15}H_{5}O_{10} \\ Gallorubin \ C_{15}H_{5}O_{10} \\ Gallorubin \ C_{16}H_{9}O_{5}N \\ Globulariacitrin \ C_{27}H_{30}O_{10} \\ Globulariasäure \ C_{26}H_{32}O_{7} \\ Glutokyrin \ C_{21}H_{36}O_{8}N_{9} \\ Glykogallin \ C_{13}H_{16}O_{10} \\ Gratioligenin \ C_{31}H_{50}O_{5} \\ Gratioligenin \ C_{37}H_{60}O_{10} \\ Gratiolin \ C_{43}H_{70}O_{15} \\ Gratiolin \ C_{43}H_{70}O_{15} \\ Gratiolon \ C_{30}H_{48}O_{8} \\ Guajen \ C_{15}H_{24} \\ Guanylsäure \ C_{52}H_{80}O_{40}N_{20}P_{4} \\ Gurjoresen \ C_{17}H_{32}O_{2} \\ Gurjoresinolsäure \ C_{16}H_{28}O_{4} \\ Gurjuresinol \ C_{15}H_{26}O \\ Gurjuturboresinol \ C_{20}H_{30}O_{2} \\ Gynocardiasäure \ C_{31}H_{40}O_{2} \\ \end{array}$

 $\begin{array}{l} H\ddot{a}matoporphyrin \\ C_{34}H_{58}O_6N_4 \\ H\ddot{a}min \ C_{34}H_{39}O_4N_4ClFe \\ Heminukleïnsäure \\ C_{35}H_{51}O_{25}N_0P_4 \\ Herniariasäure \ C_{98}H_{49}O_{14} \\ Herniarin \ C_{54}H_{59}O_{19} \\ Hippomelanin \ C_{52}H_{39}O_{18}N_9S \\ Hippurylasparaginsäure \\ C_{15}H_{14}O_6N_2 \\ Hippurylasparagylasparaginsäure \ C_{21}H_{24}O_{12}N_4 \\ Homomaticosäure \ C_{11}H_{12}O_6 \end{array}$

 $\begin{array}{lll} Indanthren & C_{28}H_{14}O_4N_2\\ Indenophenazinglykolsäure\\ & C_{16}H_{10}O_3N_2\\ Indophtalon & C_{26}H_{20}O_2N_2\\ Indophtenin & C_{14}H_7ONS_2\\ Isoallitursäure & C_6H_6O_4N_4\\ Isoalstonin & C_{14}H_{22}O \end{array}$

Isoanemonin $C_{10}H_8O_4$ Isoanemoniaure $C_{10}H_{10}O_5$ Isobiliansäure $C_{24}H_{34}O_8$ Isocareleminsäure $C_{40}H_{56}O_4$ Isocareleminsäure $C_{40}H_{56}O_4$ Isocarieleminsäure $C_{88}H_{56}O_4$ Isocarieleminsäure $C_{88}H_{56}O_4$ Isocacaiure $C_{18}H_{16}O_4$ Isocalelemisäure $C_{27}H_{56}O_4$ Isodicampher $C_{20}H_{36}O_2$ Isohydranisoin $C_{16}H_{18}O_4$ Isolaudanin $C_{20}H_{25}O_4N$ Isolaudanin $C_{20}H_{25}O_4N$ Isolaudanin $C_{20}H_{25}O_4N$ Isophellogensäure $C_{11}H_{12}O_8$ Isophellogensäure $C_{11}H_{40}O_4$ Isophellonsäure $C_{22}H_{42}O_3$ Isopyrophtalon $C_{11}H_6O_5$ Isopyroin $C_{28}H_{46}O_9N$ Isopyrophtalon $C_{14}H_6O_2N$ Isorhodeose $C_6H_{12}O_5$ Isorosindonsäure $C_{22}H_{14}O_3N_2$ Isosphäritalban $C_{30}H_{44}O_2$ Isosphäritalban $C_{30}H_{44}O_2$ Isoxazol $C_{3}H_{6}ON$

 $\begin{array}{lll} Karakin & C_{15}H_{24}O_{15}N_8 \\ Kaseansäure & C_9H_{16}O_7N_2 \\ Kaseïnokyrin & C_{22}H_{47}O_8N_9 \\ Kaseïnsäure & C_{12}H_{24}O_5N_2 \\ Kristallalban & C_{19}H_{26}O \\ Kryogenin & C_8H_{10}O_2N_4 \end{array}$

 $\begin{array}{c} Laktukol \ C_{21}H_{34}O \\ Laktukon \ C_{23}H_{36}O_{2} \\ Laricopininsäure \ C_{21}H_{30}O_{3} \\ Laricopinonsäure \ C_{20}H_{28}O_{4} \\ Larixinsäure \ C_{6}H_{6}O_{3} \\ Leiphämsäure \ C_{22}H_{40}O_{5} \\ Lepranthasäure \ C_{22}H_{40}O_{10} \\ Leprantsäure \ C_{19}H_{18}O_{9} \\ Lupinidin \ C_{15}H_{26}O_{1} \\ Lupinidin \ C_{15}H_{26}O_{1} \\ Lutidon \ C_{7}H_{9}ON \\ Lygosin \ C_{17}H_{14}O_{3} \end{array}$

 $\begin{array}{l} \textbf{Maclayetin} \quad \textbf{C}_{11}\textbf{H}_{18}\textbf{O}_{4} \\ \textbf{Maclayin} \quad \textbf{C}_{17}\textbf{H}_{32}\textbf{O}_{10} \\ \textbf{Malachitgrün} \quad \textbf{C}_{23}\textbf{H}_{26}\textbf{ON}_{2} \\ \textbf{Mannamin} \quad \textbf{C}_{6}\textbf{H}_{15}\textbf{O}_{5}\textbf{N} \\ \textbf{Maretin} \quad \textbf{C}_{4}\textbf{H}_{16}\textbf{O}_{5}\textbf{N} \\ \textbf{Maretin} \quad \textbf{C}_{4}\textbf{H}_{16}\textbf{O}_{4} \\ \textbf{Masticinsäure} \quad \textbf{C}_{23}\textbf{H}_{36}\textbf{O}_{4} \\ \textbf{Masticolsäure} \quad \textbf{C}_{23}\textbf{H}_{36}\textbf{O}_{4} \\ \textbf{Masticorsaure} \quad \textbf{C}_{32}\textbf{H}_{46}\textbf{O}_{4} \\ \textbf{Masticoresen} \quad \textbf{C}_{35}\textbf{H}_{56}\textbf{O}_{4} \\ \textbf{Matikocampher} \quad \textbf{C}_{15}\textbf{H}_{26}\textbf{O} \\ \textbf{Mesoporphyrin} \quad \textbf{C}_{34}\textbf{H}_{38}\textbf{O}_{4}\textbf{N}_{4} \\ \textbf{Mesotan} \quad \textbf{C}_{9}\textbf{H}_{10}\textbf{O}_{4} \\ \textbf{Metacopaïvasäure} \quad \textbf{C}_{11}\textbf{H}_{16}\textbf{O}_{2} \\ \textbf{Metochinon} \quad \textbf{C}_{20}\textbf{H}_{24}\textbf{O}_{4}\textbf{N}_{2} \\ \textbf{Musculamin} \quad \textbf{C}_{5}\textbf{H}_{14}\textbf{N}_{2} \\ \textbf{Myristicin} \quad \textbf{C}_{11}\textbf{H}_{12}\textbf{O}_{3} \\ \textbf{Myristicin} \quad \textbf{C}_{11}\textbf{H}_{12}\textbf{O}_{3} \\ \end{array}$

Naphtakrihydridin C42H28N2 Naphtobenzofluorindin $C_{22}H_{14}N_{4}$ Naphtochinoxalonaphtazin $C_{22}H_{12}N_4$ Naphtofluorindin C28H16N4 Naphtophenanthridin $C_{17}H_{11}N$ Naphtophenanthridon C₁₇H₁₁ON Naphtophenoxazon $C_{16}H_0O_2N$ Nerol $C_{10}H_{18}O$ Nerolidol $C_{15}H_{20}O$ Nigrotinsaure C11 H8O7S Norcocaflavetin C20H14Ou Norcotarnon C10 II8O4 Noryohimbin C20H22O4N2 Nukleotin Cao II 42 O18 N4

 $\begin{array}{l} \textbf{O} \text{ktoglycyl} \quad \textbf{C}_{16} \textbf{H}_{24} \textbf{O}_{8} \textbf{N}_{8} \\ \textbf{Olivaceasäure} \quad \textbf{C}_{17} \textbf{H}_{22} \textbf{O}_{6} \\ \textbf{Olivacein} \quad \textbf{C}_{17} \textbf{H}_{22} \textbf{O}_{6} \\ \textbf{Olivetorsäure} \quad \textbf{C}_{21} \textbf{H}_{26} \textbf{O}_{7} \\ \textbf{Olivil} \quad \textbf{C}_{20} \textbf{H}_{24} \textbf{O}_{7} \\ \textbf{Ozobenzol} \quad \textbf{C}_{6} \textbf{H}_{6} \textbf{O}_{6} \\ \end{array}$

Palabieninsäure C₁₃II₂₀O₂ Palabietinolsäure C10 H24O2 Palabietinsäure C₂₀H₃₀O₂ Pannarol $C_8H_8O_9$ Pannarol $C_8H_8O_9$ Papaveramin $C_8H_{10}O_0$ N Parasaccharin $C_8H_{10}O_0$ Parasaccharon $C_0H_8O_0$ Parasaccharonsiure: $C_8H_{10}O_7$ Pepton C23 H39 O10 N7 C₃₂H₅₆O₁₅N₈ Peradrenalon C₀H₀O₄N Phaseolunatin $C_{10}\Pi_{17}O_8N$ Phaseolunatinsäure $C_{10}\Pi_{18}O_8$ Phellogensäure C₂₁II₄₀()₄ Phloraspin C28 H28() Photosantoninsäure C₃₀H₄₂O₀ Pikroglobularin C44H80O7 Pinocamphorylalkohol $C_9H_{16}O$ Pinophoron CoH14O Piperidocodid C₂₃H₃₀()₂N₂ Pleopsidsiure C₁₇H₂₈()₄ Podophylloresin C12H12O4 Polystichalbin C25 H32(), Polystichin $C_{2n}H_{32}O_n$ Polystichoeitrin $C_{24}H_{2n}O_n$ Polystichumsäure $C_{2n}H_{32}O_n$ Porisi C₄₈H₇₀O₁₀
Porini C₄₈H₇₀O₁₀
Porinisäure C₁₁H₁₂O₄
Porphyrindin C₁₀H₁₄O₂N₈
Prolylalanin C₈H₁₄O₃N₂
Protococasäure C₉H₈O₂ Protoisococasäure C.H.O. Protolichesterinsäure C18 H30 ()5

 $C_{19}H_{39}O_4$

 $\begin{array}{l} \text{Protopapaverin } C_{10}H_{10}O_4N \\ \text{Pseudoaspidin } C_{25}H_{32}O_5 \\ \text{Pseudocerebrin } C_{44}H_{02}O_8N \\ \text{Pseudopapaverin } C_{21}H_{21}O_4N \\ \text{Purpurogallon } C_{11}H_6O_5 \\ \text{Pyrophtalin } C_{14}H_{10}ON_2 \end{array}$

 $\begin{array}{c} \textbf{Ramalinsäure} & \textbf{C}_{30}\textbf{H}_{26}\textbf{O}_{15} \\ \textbf{Resorcinanthrachinon} \\ \textbf{C}_{26}\textbf{H}_{10}\textbf{O}_{4} \\ \textbf{Rhein} & \textbf{C}_{15}\textbf{H}_{8}\textbf{O}_{6} \\ \textbf{Rheosmin} & \textbf{C}_{10}\textbf{H}_{12}\textbf{O}_{2} \\ \textbf{Rhodinal} & \textbf{C}_{10}\textbf{H}_{18}\textbf{O} \\ \textbf{Rhodinamin} & \textbf{C}_{10}\textbf{H}_{21}\textbf{N} \\ \textbf{Rhodinsäure} & \textbf{C}_{10}\textbf{H}_{18}\textbf{O}_{2} \\ \textbf{Rhomnol} & \textbf{C}_{40}\textbf{H}_{51}\textbf{O}_{27}\textbf{N}_{14}\textbf{P}_{4} \\ \textbf{Ricidin} & \textbf{C}_{16}\textbf{H}_{18}\textbf{O}_{4}\textbf{N}_{4} \\ \textbf{Ricinin} & \textbf{C}_{8}\textbf{H}_{8}\textbf{O}_{2}\textbf{N}_{2} \\ \textbf{--} & \textbf{C}_{16}\textbf{H}_{18}\textbf{O}_{4}\textbf{N}_{4} \\ \textbf{Ricininsäure} & \textbf{C}_{1}\textbf{H}_{8}\textbf{O}_{2}\textbf{N}_{2} \\ \textbf{Rimusäure} & \textbf{C}_{16}\textbf{H}_{20}\textbf{O}_{3} \\ \textbf{Robigenin} & \textbf{C}_{16}\textbf{H}_{20}\textbf{O}_{3} \\ \textbf{Robigenin} & \textbf{C}_{16}\textbf{H}_{40}\textbf{O}_{19} \\ \textbf{Robinin} & \textbf{C}_{27}\textbf{H}_{80}\textbf{O}_{16} \\ \end{array}$

 $\begin{array}{lll} \mathbf{Samandatrin} & \mathbf{C_{21}H_{37}O_3N_2} \\ \mathbf{Santols\"{a}ure} & \mathbf{C_{15}H_{22}O_5} \\ \mathbf{Santorons\"{a}ure} & \mathbf{C_{16}H_{16}O_6} \\ \mathbf{Santors\"{a}ure} & \mathbf{C_{18}H_{18}O_8} \\ \mathbf{Sapogenin} & \mathbf{C_{80}H_{56}O_6} \end{array}$

 $\begin{array}{c} \text{Saponarin } C_{19}H_{22}O_{11} \\ \text{Saponin } C_{15}H_{29}O_{10} \\ \text{Sapotoxin } C_{23}H_{38}O_{10} \\ \text{Saxatsäure } C_{25}H_{40}O_8 \\ \text{Scammonolsäure } C_{16}H_{90}O_3 \\ \text{Scombrin } C_{32}H_{72}O_8N_{16} \\ \text{Sepsin } C_5H_{14}O_2N_2 \\ \text{Skatosin } C_{10}H_{16}O_2N_2 \\ \text{Skimmianin } C_{32}H_{90}O_0N_3 \\ \text{Solanidin } C_{30}H_{61}O_2N \\ \text{Solanidin } C_{59}H_{67}O_{18}N \\ \text{Sophorin } C_{77}H_{30}O_{16} \\ \text{Sparteinoxyd } C_{15}H_{26}O_2N_2 \\ \text{Sphäritalban } C_{30}H_{44}O_2 \\ \text{Spilanthen } C_{15}H_{30} \\ \text{Spilanthol } C_{37}H_{64}O_3N_2 \\ \text{Spilanthol } C_{37}H_{64}O_3N_2 \\ \text{Spongosterin } C_{19}H_{32}O \\ \text{Stictaurin } C_{36}H_{22}O_0 \\ \text{Stophantin } C_{36}H_{42}O_1 \\ \text{Sturin } C_{34}H_{71}O_0N_{17} \\ \text{Suprarenin } C_{9}H_{13}O_3N \\ \end{array}$

 $\begin{array}{lll} \textbf{T}acamahinsäure & C_{49}H_{72}O_{2}\\ \textbf{T}acamaholsäure & C_{17}H_{25}O_{2}\\ \textbf{T}acelemisäure & C_{37}H_{56}O_{4}\\ \textbf{T}aceleresen & C_{15}H_{24}O\\ \textbf{T}akoresen & C_{16}H_{25}O\\ & & & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & \\ & & & & & \\ & & & \\ & & & & \\ & & & \\ & & & & \\ & &$

 $\begin{array}{ll} Tricylen & C_{10}H_{18} \\ Trinaphtylenbenzol & C_{86}H_{18} \\ Tryptophan & C_{11}H_{12}O_2N_2 \end{array}$

 $\begin{array}{l} Umbellon \ \ C_{10}H_{14}O \\ Urobromalsäure \ \ C_8H_{11}O_7Br_8 \\ Uroferrinsäure \ \ C_{35}H_{56}O_{10}N_6S \\ Usnidinsäure \ \ C_{18}H_{16}O_8 \end{array}$

 $\begin{array}{c} \textbf{Valaktenbernsteinsäure} \\ \textbf{C}_{5}\textbf{H}_{12}\textbf{O}_{5} \\ \textbf{Valaktenpropionsäure} \\ \textbf{C}_{8}\textbf{H}_{12}\textbf{O}_{3} \\ \textbf{Vernin } \textbf{C}_{10}\textbf{H}_{13}\textbf{O}_{5}\textbf{N}_{5} \\ \textbf{Veronal } \textbf{C}_{8}\textbf{H}_{12}\textbf{O}_{3}\textbf{N}_{2} \\ \textbf{Vetirol } \textbf{C}_{0}\textbf{H}_{14}\textbf{O} \\ \textbf{--} \textbf{C}_{11}\textbf{H}_{18}\textbf{O} \\ \textbf{Vetiron } \textbf{C}_{13}\textbf{H}_{22}\textbf{O} \\ \textbf{Vetiven } \textbf{C}_{15}\textbf{H}_{24} \\ \textbf{Vetivenol } \textbf{C}_{15}\textbf{H}_{24} \\ \textbf{Vetivenol } \textbf{C}_{15}\textbf{H}_{26}\textbf{O} \\ \end{array}$

 $egin{array}{c} \mathbf{X} & \text{anthanwasserstoff} \\ \mathbf{C_2} \mathbf{H_2} \mathbf{N_2} \mathbf{S_3} \end{array}$

 \mathbf{Y} ohimboasäure $\mathrm{C}_{20}\mathrm{H}_{26}\mathrm{O}_4\mathrm{N}_2$

Zellobionsäure $C_{12}H_{22}O_{12}$ Zeorsäure $C_{28}H_{22}O_{10}$

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